

Mon Jan 6 18:51:29 2003

us-10-006-366-3.rnmpm

Page 1

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:13:06 ; Search time 8801 Seconds  
(without alignments)  
19060.411 Million cell updates/sec

Title: US-10-006-366-3

Sequence: 1 cctccactggtgactgtg.....ttacttgggttcacttgt 6672

Scoring table: IDENTITY-NUC  
Gapop 10.0 , Gapext 1.0

Searched: 24791104 seqs, 12571243825 residues

Total number of hits satisfying chosen parameters: 13576696

Minimum DB seq length: 0  
Maximum DB seq length: 99

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Pending Patents-NA.Maln:\*  
1: /cgn2\_6/ptodata/1/pna/US006.COMB.seq.\*  
2: /cgn2\_6/ptodata/1/pna/US07.COMB.seq.\*  
3: /cgn2\_6/ptodata/1/pna/US080.COMB.seq.\*  
4: /cgn2\_6/ptodata/1/pna/US081.COMB.seq.\*  
5: /cgn2\_6/ptodata/1/pna/US082.COMB.seq.\*  
6: /cgn2\_6/ptodata/1/pna/US083.COMB.seq.\*  
7: /cgn2\_6/ptodata/1/pna/US084.COMB.seq.\*  
8: /cgn2\_6/ptodata/1/pna/US085.COMB.seq.\*  
9: /cgn2\_6/ptodata/1/pna/US086.COMB.seq.\*  
10: /cgn2\_6/ptodata/1/pna/US087.COMB.seq.\*  
11: /cgn2\_6/ptodata/1/pna/US088.COMB.seq.\*  
12: /cgn2\_6/ptodata/1/pna/US089.COMB.seq.\*  
13: /cgn2\_6/ptodata/1/pna/US090.COMB.seq.\*  
14: /cgn2\_6/ptodata/1/pna/US091.COMB.seq.\*  
15: /cgn2\_6/ptodata/1/pna/US092.COMB.seq.\*  
16: /cgn2\_6/ptodata/1/pna/US093.COMB.seq.\*  
17: /cgn2\_6/ptodata/1/pna/US094.COMB.seq.\*  
18: /cgn2\_6/ptodata/1/pna/US095A.COMB.seq.\*  
19: /cgn2\_6/ptodata/1/pna/US095B.COMB.seq.\*  
20: /cgn2\_6/ptodata/1/pna/US095C.COMB.seq.\*  
21: /cgn2\_6/ptodata/1/pna/US095D.COMB.seq.\*  
22: /cgn2\_6/ptodata/1/pna/US096A.COMB.seq.\*  
23: /cgn2\_6/ptodata/1/pna/US096B.COMB.seq.\*  
24: /cgn2\_6/ptodata/1/pna/US096C.COMB.seq.\*  
25: /cgn2\_6/ptodata/1/pna/US096D.COMB.seq.\*  
26: /cgn2\_6/ptodata/1/pna/US096E.COMB.seq.\*  
27: /cgn2\_6/ptodata/1/pna/US097A.COMB.seq.\*  
28: /cgn2\_6/ptodata/1/pna/US097B.COMB.seq.\*  
29: /cgn2\_6/ptodata/1/pna/US097C.COMB.seq.\*  
30: /cgn2\_6/ptodata/1/pna/US098A.COMB.seq.\*  
31: /cgn2\_6/ptodata/1/pna/US098B.COMB.seq.\*  
32: /cgn2\_6/ptodata/1/pna/US098C.COMB.seq.\*  
33: /cgn2\_6/ptodata/1/pna/US099A.COMB.seq.\*  
34: /cgn2\_6/ptodata/1/pna/US099B.COMB.seq.\*  
35: /cgn2\_6/ptodata/1/pna/US099C.COMB.seq.\*  
36: /cgn2\_6/ptodata/1/pna/US099D.COMB.seq.\*  
37: /cgn2\_6/ptodata/1/pna/US100A.COMB.seq.\*  
38: /cgn2\_6/ptodata/1/pna/US100B.COMB.seq.\*  
39: /cgn2\_6/ptodata/1/pna/US101A.COMB.seq.\*  
40: /cgn2\_6/ptodata/1/pna/US101B.COMB.seq.\*  
41: /cgn2\_6/ptodata/1/pna/US102A.COMB.seq.\*  
42: /cgn2\_6/ptodata/1/pna/US102B.COMB.seq.\*  
43: /cgn2\_6/ptodata/1/pna/US102C.COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	80.4	1.2	98	1 PCT-US01-01333-818	Sequence 818, App
2	80.4	1.2	98	1 PCT-US01-01333-819	Sequence 819, App
3	80.4	1.2	98	30 US-09-764-860-818	Sequence 818, App
4	80.4	1.2	98	30 US-09-764-860-819	Sequence 819, App
5	80.4	1.2	98	39 US-10-074-095-818	Sequence 818, App
6	80.4	1.2	98	39 US-10-074-095-819	Sequence 819, App
7	80.4	1.2	98	42 US-10-212-872-818	Sequence 818, App
8	80.4	1.2	98	42 US-10-212-872-819	Sequence 819, App
9	80.4	1.2	99	1 PCT-US01-01354-41392	Sequence 41392, A
10	80.4	1.2	99	30 US-09-764-905-41392	Sequence 41392, A
11	80.4	1.2	99	39 US-10-092-399-41384	Sequence 41384, A
12	79.6	1.2	99	1 PCT-US01-01354-41384	Sequence 41384, A
13	79.6	1.2	99	30 US-09-764-905-41384	Sequence 41384, A
14	79.6	1.2	99	39 US-10-092-399-41384	Sequence 41384, A
15	78.8	1.2	98	1 PCT-US01-01324-2765	Sequence 2765, Ap
16	78.8	1.2	98	1 PCT-US01-01335-582	Sequence 582, Ap
17	78.8	1.2	98	39 US-10-074-024-582	Sequence 582, Ap
18	78.8	1.2	98	39 US-10-079-979-2765	Sequence 2765, Ap
19	78.8	1.2	98	39 US-10-079-979-2766	Sequence 2766, Ap
20	77.4	1.2	95	1 PCT-US01-01354-39928	Sequence 39928, A

```
C 22 77.4 1.2 95 30 US-09-764-905-39928 Sequence 39928, A
C 23 77.4 1.2 95 39 US-10-092-399-39928 Sequence 39928, A
C 24 77.2 1.2 98 1 PCT-US01-01329-2968 Sequence 2968, Ap
C 25 77.2 1.2 98 1 PCT-US01-01334-10742 Sequence 10742, A
C 26 77.2 1.2 98 1 PCT-US01-01334-10746 Sequence 10746, A
C 27 77.2 1.2 98 1 PCT-US01-01335-723 Sequence 723, App
C 28 77.2 1.2 98 1 PCT-US01-01339-6894 Sequence 6894, Ap
C 29 77.2 1.2 98 1 PCT-US01-01339-8151 Sequence 8151, Ap
C 30 77.2 1.2 98 1 PCT-US01-01353-661 Sequence 661, Ap
C 31 77.2 1.2 98 1 PCT-US01-01354-26660 Sequence 26660, A
C 32 77.2 1.2 98 1 PCT-US01-01354-26661 Sequence 26661, A
C 33 77.2 1.2 98 1 PCT-US01-01354-26662 Sequence 26662, A
C 34 77.2 1.2 98 1 PCT-US01-01354-30829 Sequence 30829, A
C 35 77.2 1.2 98 30 US-09-764-874-10742 Sequence 10742, A
C 36 77.2 1.2 98 30 US-09-764-874-10746 Sequence 10746, A
C 37 77.2 1.2 98 30 US-09-764-891-6894 Sequence 6894, Ap
C 38 77.2 1.2 98 30 US-09-764-891-8151 Sequence 8151, Ap
C 39 77.2 1.2 98 30 US-09-764-905-26660 Sequence 26660, A
C 40 77.2 1.2 98 30 US-09-764-905-26661 Sequence 26661, A
C 41 77.2 1.2 98 30 US-09-764-905-26662 Sequence 26662, A
C 42 77.2 1.2 98 30 US-09-764-905-30829 Sequence 30829, A
C 43 77.2 1.2 98 36 US-09-950-083-6997 Sequence 6997, Ap
C 44 77.2 1.2 98 36 US-09-950-083-6998 Sequence 6998, Ap
C 45 77.2 1.2 98 36 US-09-950-083-6999 Sequence 6999, Ap
```

## ALIGNMENTS

```
RESULT 1
PCT-US01-01333-818
; Sequence 818, Application PC/TUS0101333
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc., et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008PCT
; CURRENT APPLICATION NUMBER: PCT/US01/01333
; CURRENT FILING DATE: 2001-01-14
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 818
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-01333-818
```

```
Query Match
Best Local Similarity 1.2%; Score 80.4; DB 1; Length 98;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
OY 4090 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 4149
DB 1 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 60
OY 4150 CCACCCAGCTGAGCTCCCAAGAGTGTGGATTACAG 4187
DB 61 CCACCTGCTCAGCTCCCAAGAGTGTGGATTACAG 98
```

```
RESULT 2
PCT-US01-01333-819
; Sequence 819, Application PC/TUS0101333
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc., et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008PCT
; CURRENT APPLICATION NUMBER: PCT/US01/01333
; CURRENT FILING DATE: 2001-01-14
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 819
```

```
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-01333-819
```

```
Query Match
Best Local Similarity 1.2%; Score 80.4; DB 1; Length 98;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
OY 4090 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 4149
DB 1 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 60
OY 4150 CCACCCAGCTGAGCTCCCAAGAGTGTGGATTACAG 4187
DB 61 CCACCTGCTCAGCTCCCAAGAGTGTGGATTACAG 98
```

```
RESULT 3
US-09-764-860-818
; Sequence 818, Application US/09764860
; GENERAL INFORMATION:
```

```
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008
; CURRENT APPLICATION NUMBER: US/09/764,860
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 818
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-860-818
```

```
Query Match
Best Local Similarity 1.2%; Score 80.4; DB 30; Length 98;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
OY 4090 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 4149
DB 1 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 60
OY 4150 CCACCCAGCTGAGCTCCCAAGAGTGTGGATTACAG 4187
DB 61 CCACCTGCTCAGCTCCCAAGAGTGTGGATTACAG 98
```

```
RESULT 4
US-09-764-860-819
; Sequence 819, Application US/09764860
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008
; CURRENT APPLICATION NUMBER: US/09/764,860
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 819
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-860-819
```

```
Query Match
Best Local Similarity 1.2%; Score 80.4; DB 30; Length 98;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
OY 4090 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 4149
DB 1 GTAGAGACAGGGTTTGGCGGTGTTGGCGGCTGCTCGAAGCTTGAACCTGGGTGAT 60
```

Mon Jan 6 18:51:29 2003

us-10-006-366-3.inpm

Page 3

```
Db      1  GTAGACAGCGGTTTCACATGTTGGCCAGGCTGATCTCGAAGCTCCGACCTCAGGTGAT 60
Qy      4150 CCACCCAGCTCAGCCTCCCAAGTCTGGATTACAG 4187
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      61  CCACCTGCTCAGCCTCCCAAGTCTGGATTACAGG 98

RESULT 5
US-10-074-095-818
; Sequence 818, Application US/10074095
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC0080C1
; CURRENT APPLICATION NUMBER: US/10/074,095
; CURRENT FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: 09/764,860
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/225,757
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/226,868
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/216,647
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,267
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/216,880
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,270
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/251,869
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/235,834
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/234,274
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/234,223
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/228,924
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/224,518
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/236,369
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/224,519
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,964
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/241,809
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/249,299
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/236,327
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/241,785

; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/244,617
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 60/225,268
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/236,368
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/251,856
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/251,868
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/229,344
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/234,997
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: 60/229,343
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/229,345
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/229,287
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/229,513
; PRIOR FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: 60/231,413
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 60/229,509
; PRIOR FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: 60/236,367
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/237,039
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/237,038
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/236,370
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/236,802
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/237,037
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/237,040
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/240,960
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/239,935
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/239,937
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/241,787
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/246,474
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: 60/246,532
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: 60/249,216
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/249,210
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/226,681
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/225,759
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/225,213
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/227,182
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/225,214
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/235,836
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/230,438
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/215,135
; PRIOR FILING DATE: 2000-06-30
```

PRIOR APPLICATION NUMBER: 60/225,266  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/249,218  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,208  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,213  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,212  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,207  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,245  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,244  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,217  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,211  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,215  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,264  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,214  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/249,297  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/232,400  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/231,242  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/232,081  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/232,080  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,414  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/231,244  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/233,064  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/233,063  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,397  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,399  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/232,401  
 PRIOR FILING DATE: 2000-09-14  
 PRIOR APPLICATION NUMBER: 60/241,808  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,826  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,786  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/241,221  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/246,475  
 PRIOR FILING DATE: 2000-11-08  
 PRIOR APPLICATION NUMBER: 60/231,243  
 PRIOR FILING DATE: 2000-09-08  
 PRIOR APPLICATION NUMBER: 60/233,065

Query Match 1.2%; Score 80.4; DB 39; Length 98;  
 Best Local Similarity 88.8%; Pred. No. 2;  
 Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4090 GTAAAGACAGGGTTTCCGTGTTGGCCGGCTGCTGAACTTGTGACCTCGGGTAT 4149  
 DB 1 GTAAAGACAGGGTTTCCGTGTTGGCCGGCTGCTGAACTTGTGACCTCGGGTAT 60  
 QY 4150 CCACCCACTCAGCCTCCCAAGTCTGGATTACAG 4187

DB 61 CCACCTGCTCAGCCTCCCAAGTCTGGATTACAG 98  
 RESULT 6  
 US-10-074-095-819  
 Sequence 819, Application US/10074095  
 GENERAL INFORMATION:  
 APPLICANT: Rosen et al.  
 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 FILE REFERENCE: PC008C1  
 CURRENT APPLICATION NUMBER: US/10/074,095  
 CURRENT FILING DATE: 2002-02-14  
 PRIOR APPLICATION NUMBER: 09/764,860  
 PRIOR FILING DATE: 2001-01-17  
 PRIOR APPLICATION NUMBER: 60/179,065  
 PRIOR FILING DATE: 2000-01-31  
 PRIOR APPLICATION NUMBER: 60/180,628  
 PRIOR FILING DATE: 2000-02-04  
 PRIOR APPLICATION NUMBER: 60/214,886  
 PRIOR FILING DATE: 2000-06-28  
 PRIOR APPLICATION NUMBER: 60/217,487  
 PRIOR FILING DATE: 2000-07-11  
 PRIOR APPLICATION NUMBER: 60/225,758  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/220,963  
 PRIOR FILING DATE: 2000-07-26  
 PRIOR APPLICATION NUMBER: 60/217,496  
 PRIOR FILING DATE: 2000-07-11  
 PRIOR APPLICATION NUMBER: 60/225,447  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/218,290  
 PRIOR FILING DATE: 2000-07-14  
 PRIOR APPLICATION NUMBER: 60/225,757  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/226,868  
 PRIOR FILING DATE: 2000-08-22  
 PRIOR APPLICATION NUMBER: 60/216,647  
 PRIOR FILING DATE: 2000-07-07  
 PRIOR APPLICATION NUMBER: 60/225,267  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/216,880  
 PRIOR FILING DATE: 2000-07-07  
 PRIOR APPLICATION NUMBER: 60/225,270  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/251,869  
 PRIOR FILING DATE: 2000-12-08  
 PRIOR APPLICATION NUMBER: 60/235,834  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: 60/234,274  
 PRIOR FILING DATE: 2000-09-21  
 PRIOR APPLICATION NUMBER: 60/234,223  
 PRIOR FILING DATE: 2000-09-21  
 PRIOR APPLICATION NUMBER: 60/228,924  
 PRIOR FILING DATE: 2000-08-30  
 PRIOR APPLICATION NUMBER: 60/224,518  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/236,369  
 PRIOR FILING DATE: 2000-09-29  
 PRIOR APPLICATION NUMBER: 60/224,519  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/220,964  
 PRIOR FILING DATE: 2000-07-26  
 PRIOR APPLICATION NUMBER: 60/241,809  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/249,299  
 PRIOR FILING DATE: 2000-11-17  
 PRIOR APPLICATION NUMBER: 60/236,327  
 PRIOR FILING DATE: 2000-09-29  
 PRIOR APPLICATION NUMBER: 60/241,785  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/244,617  
 PRIOR FILING DATE: 2000-11-01

PRIOR APPLICATION NUMBER: 60/225,268  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/236,368  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/251,856  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/251,868  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/229,344  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/234,997  
PRIOR FILING DATE: 2000-09-25  
PRIOR APPLICATION NUMBER: 60/229,343  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,345  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,287  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,513  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: 60/231,413  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/229,509  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: 60/236,367  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/237,039  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,038  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/236,370  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/236,802  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,037  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,040  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/240,960  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/239,935  
PRIOR FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: 60/239,937  
PRIOR FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: 60/241,787  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/246,474  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/246,532  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/249,216  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,210  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/226,681  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/225,759  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/225,213  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/227,182  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/225,214  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/235,836  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/230,438  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/215,135  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: 60/225,266  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/249,218

PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,208  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,213  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,212  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,207  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,245  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,244  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,217  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,211  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,215  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,264  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,214  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,297  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/232,400  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/231,242  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/232,081  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/232,080  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/231,414  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/231,244  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/233,064  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/233,063  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,397  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,399  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,401  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/241,808  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/241,826  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/241,786  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/241,221  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/246,475  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/231,243  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/233,065

Query Match 1.2%: Score 80.4; DB 39; Length 98;  
Best Local Similarity 88.8%; Pred. No. 2;  
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4090 GTGAGACAGGTTTGGCGTGTGGCGGCTGTGCACTCTTGAACCTGGGATGAT 4149  
DB 1 GTGAGACAGGTTTGGCGTGTGGCGGCTGTGCACTCTTGAACCTGGGATGAT 60  
QY 4150 CCACCGACGCTCCCAAGTGTGGGATTACAG 4187  
DB 61 CCACGCTCCAGCTCCCAAGTGTGGGATTACAG 98

```
RESULT 7
US-10-212-872-818
; Sequence 818, Application US/10212872
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008C2
; CURRENT APPLICATION NUMBER: US/10/212,872
; CURRENT FILING DATE: 2002-08-07
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 818
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-212-872-818

Query Match
Best Local Similarity 88.8%; Pred. No. 2;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4090 GTAGAGACAGGTTTGGCGGCGGCGTCTCGAAGCTTGTGACCTCGGGTGAT 4149
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 GTAGAGAGGGGTTTACACATGTTGGCCAGCGTATCTCGAAGCTTGTGACCTCGGGTGAT 60

OY 4150 CCACCCACTGACCTCCCAAGTGTGGATTACAG 4187
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 CCACCTGCTCAGCTCCCAAGTGTGGATTACAG 98

RESULT 8
US-10-212-872-819
; Sequence 819, Application US/10212872
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008C2
; CURRENT APPLICATION NUMBER: US/10/212,872
; CURRENT FILING DATE: 2002-08-07
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 819
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-212-872-819

Query Match
Best Local Similarity 88.8%; Pred. No. 2;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4090 GTAGAGACAGGTTTGGCGGCGGCGTCTCGAAGCTTGTGACCTCGGGTGAT 4149
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 GTAGAGAGGGGTTTACACATGTTGGCCAGCGTATCTCGAAGCTTGTGACCTCGGGTGAT 60

OY 4150 CCACCCACTGACCTCCCAAGTGTGGATTACAG 4187
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 CCACCTGCTCAGCTCCCAAGTGTGGATTACAG 98

RESULT 9
PCT-US01-01354-41392
; Sequence 41392, Application PC/TUS0101354
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc. et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC004PCT
; CURRENT APPLICATION NUMBER: PCT/US01/01354
; CURRENT FILING DATE: 2001-03-17
; NUMBER OF SEQ ID NOS: 42506
```

```
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 41392
; LENGTH: 99
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-01354-41392

Query Match
Best Local Similarity 88.8%; Pred. No. 2;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4099 GGGTTTGGCGTGTGGCGGCGGCGTCTCGAAGCTTGTGACCTCGGGTGATCCACCACC 4158
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 GGGTTTGGCGTGTGGCGGCGGCGTCTCGAAGCTTGTGACCTCGGGTGATCCACCACC 61

OY 4159 TCAGCTCCCAAGTGTGGATTACAGCGTGAGCCA 4196
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 62 TCAGCTCCCAAGTGTGGATTACAGCGTGAGCCA 99

RESULT 10
US-09-764-905-41392
; Sequence 41392, Application US/09764905
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC004
; CURRENT APPLICATION NUMBER: US/09/764,905
; CURRENT FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/225,757
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/226,868
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/216,647
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,267
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/216,880
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,270
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/251,869
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/235,834
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/234,274
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/234,223
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/228,924
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/224,518
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/236,369
; PRIOR FILING DATE: 2000-09-29
```

PRIOR APPLICATION NUMBER: 60/224,519  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/220,964  
PRIOR FILING DATE: 2000-07-26  
PRIOR APPLICATION NUMBER: 60/241,809  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/249,299  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/236,327  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/241,785  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/244,617  
PRIOR FILING DATE: 2000-11-01  
PRIOR APPLICATION NUMBER: 60/225,268  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/236,368  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/251,856  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/251,868  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/229,344  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/234,997  
PRIOR FILING DATE: 2000-09-25  
PRIOR APPLICATION NUMBER: 60/229,343  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,345  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,287  
PRIOR FILING DATE: 2000-09-01  
PRIOR APPLICATION NUMBER: 60/229,513  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: 60/231,413  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/229,509  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: 60/236,367  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/237,039  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,038  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/236,370  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/236,802  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,037  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/237,040  
PRIOR FILING DATE: 2000-10-02  
PRIOR APPLICATION NUMBER: 60/240,960  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/239,935  
PRIOR FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: 60/239,937  
PRIOR FILING DATE: 2000-10-13  
PRIOR APPLICATION NUMBER: 60/241,787  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/246,474  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/246,532  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/249,216  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,210  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/226,681  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/225,759  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/225,213

PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/227,182  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/225,214  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/235,836  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/230,438  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/215,135  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: 60/225,266  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/249,218  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,208  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,213  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,212  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,207  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,245  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,244  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,217  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,211  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,215  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,264  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,214  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/249,297  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/232,400  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/231,242  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/232,081  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/232,080  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/231,414  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/231,244  
PRIOR FILING DATE: 2000-09-08  
PRIOR APPLICATION NUMBER: 60/233,064  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/233,063  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,397  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,399  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,401  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/241,808  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/241,826  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/241,786  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/241,221  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/246,475  
PRIOR FILING DATE: 2000-11-08  
PRIOR APPLICATION NUMBER: 60/231,243  
PRIOR FILING DATE: 2000-09-08

PRIOR APPLICATION NUMBER: 60/233,065  
PRIOR FILING DATE: 2000-09-14  
PRIOR APPLICATION NUMBER: 60/232,398

## Query Match

Best Local Similarity 1.2%; Score 80.4; DB 30; Length 99;  
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4099 GGGTTTCCGCTGGTGGCGGCTGCTGCACTTGTGACCTGCGGTGATCCACCACC 4158  
DB 2 GGATTTCCCATGTTGGCCAGCTGGTCTGCACTCTGACCTGAGGTATAGCCTGCC 61  
OY 4159 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 4196  
DB 62 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 99

## RESULT 11

US-10-092-399-41392  
Sequence 41392, Application US/10092399  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC004C1  
CURRENT APPLICATION NUMBER: US/10/092,399  
CURRENT FILING DATE: 2002-03-07  
NUMBER OF SEQ ID NOS: 42506  
Prior Application removed - See File Wrapper or Palm  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 41392  
LENGTH: 99  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-092-399-41392

Query Match 1.2%; Score 80.4; DB 39; Length 99;  
Best Local Similarity 88.8%; Pred. No. 2;

Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4099 GGGTTTCCGCTGGTGGCGGCTGCTGCACTTGTGACCTGCGGTGATCCACCACC 4158  
DB 2 GGATTTCCCATGTTGGCCAGCTGGTCTGCACTCTGACCTGAGGTATAGCCTGCC 61  
OY 4159 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 4196  
DB 62 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 99

## RESULT 12

PCT-US01-01354-41384  
Sequence 41384, Application PC/TUS0101354  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc. et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC004PCT  
CURRENT APPLICATION NUMBER: PCT/US01/01354  
CURRENT FILING DATE: 2001-03-17  
NUMBER OF SEQ ID NOS: 42506  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 41384  
LENGTH: 99  
TYPE: DNA  
ORGANISM: Homo sapiens  
PCT-US01-01354-41384

Query Match 1.2%; Score 79.6; DB 1; Length 99;  
Best Local Similarity 90.4%; Pred. No. 2.5;

Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 4110 TGTGGCCGGCTGCTGCACTTGTGACCTGCGGTGATCCACCACCCTCAGCTCCCA 4169  
DB 6 TGTGGCCAGGCTGTCTGCAACTCTGACCGCAGGTGATCCACCACCCTCAGCTCCCA 65

OY 4170 AAGTCTGGGATTTACAGCGTGAGCCACTGCACC 4203  
DB 66 AAGTCTGGGATTTACAGCGTGAGCCACTGCACC 99

## RESULT 13

US-09-764-905-41384  
Sequence 41384, Application US/09764905  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC004  
CURRENT APPLICATION NUMBER: US/09/764,905  
CURRENT FILING DATE: 2001-01-17  
PRIOR APPLICATION NUMBER: 60/179,065  
PRIOR FILING DATE: 2000-01-31  
PRIOR APPLICATION NUMBER: 60/180,628  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: 60/214,886  
PRIOR FILING DATE: 2000-06-28  
PRIOR APPLICATION NUMBER: 60/217,487  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/225,758  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/220,963  
PRIOR FILING DATE: 2000-07-26  
PRIOR APPLICATION NUMBER: 60/217,496  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/225,447  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/218,290  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: 60/225,757  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/226,868  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: 60/216,647  
PRIOR FILING DATE: 2000-07-07  
PRIOR APPLICATION NUMBER: 60/225,267  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/216,880  
PRIOR FILING DATE: 2000-07-07  
PRIOR APPLICATION NUMBER: 60/225,270  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/251,869  
PRIOR FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: 60/235,834  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: 60/234,274  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: 60/234,223  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: 60/228,924  
PRIOR FILING DATE: 2000-08-30  
PRIOR APPLICATION NUMBER: 60/224,518  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/236,369  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/224,519  
PRIOR FILING DATE: 2000-08-14  
PRIOR APPLICATION NUMBER: 60/220,964  
PRIOR FILING DATE: 2000-07-26  
PRIOR APPLICATION NUMBER: 60/241,809  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/249,299  
PRIOR FILING DATE: 2000-11-17  
PRIOR APPLICATION NUMBER: 60/236,327  
PRIOR FILING DATE: 2000-09-29  
PRIOR APPLICATION NUMBER: 60/241,785  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/244,617  
PRIOR FILING DATE: 2000-11-01  
PRIOR APPLICATION NUMBER: 60/225,268





RESULT 14  
US-10-092-399-41384  
; Sequence 41384, Application US/10092399  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC004C1  
; CURRENT APPLICATION NUMBER: US/10/092,399  
; CURRENT FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 42506  
; Prior Application removed - See File Wrapper or Palm  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 41384  
; LENGTH: 99  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-092-399-41384

Query Match 1.2%; Score 79.6; DB 39; Length 99;  
Best Local Similarity 90.4%; Pred. No. 2.5;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 4110 TGTGGCCGGGCTGCTCGACTCTTGACCTGGGTGATCCACCCTCAGCTCCCA 4169  
|||||  
DB 6 TGTGGCCAGGCTGTCTCGAAGCTGACCGAGTGATCCACCCTCAGCTCCCA 65  
|||||  
OY 4170 AAGTGTGGGATTTACAGCGTGAAGCCACCTGCACC 4203  
|||||  
DB 66 AAGTGTGGGATTTACAGCTGTGAAGCCACAGTGCC 99  
|||||

RESULT 15  
PCT-US01-01324-2765  
; Sequence 2765, Application PC/TUS0101324  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc., et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC002PCT  
; CURRENT APPLICATION NUMBER: PCT/US01/01324  
; CURRENT FILING DATE: 2001-01-14  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 5116  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2765  
; LENGTH: 98  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US01-01324-2765

Query Match 1.2%; Score 78.8; DB 1; Length 98;  
Best Local Similarity 87.8%; Pred. No. 3.2;  
Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

OY 4090 GTAGACACAGGTTTGGCGGCGGCTGCTCGAAGCTTGACCTGGGTGAT 4149  
|||||  
DB 1 GTAGACAGCGGTTTACCATTTGGCCAGGCTGCTCGAAGCTTGACCTGGGTGAT 60  
|||||  
OY 4150 CCACCCTCAGCTCCCAAGTGTGGGATTTACAG 4187  
|||||  
DB 61 CCACCCTCAGCTCCCAAGTGTGGGATTTACAG 98  
|||||

Search completed: January 4, 2003, 20:26:35  
Job time : 8810 secs





```

CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: patent.pm
SEQ ID NO: 15268
LENGTH: 98
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 66
OTHER INFORMATION: w-a or t
FEATURE:
NAME/KEY: misc_feature
LOCATION: 67
OTHER INFORMATION: k-g or t
US-09-513-999C-15268

```

	Query Match	1.1%	Pred.	71.6:	DB 5,	Length	98;	
	Best Local Similarity	81.6%;		Score	No.0.25;			
	Matches	80;	Conservative	2;	Mismatches	16;	Indels	0;
	Gaps	0;						
OY	3962	TGCAGTGGGCGCATCTGGGTTCACATGCCAACCCGCGCCTTCCTGGGTTCACAGCATTTCTCT	4021					
Dd	1	TGCATGTGTGATCTTGATCTGACTCACGAAACCCTCGCCTCTCTGGGTTCAGGATTCTCTT	60					
OY	4022	GCTTCAGCCTCCGAGTAGCTGGGACTACAGCACCA	4059					
		:::						
Dd	61	GCTTCWKCCTCTGAGTGGCTGGATTGCAGGTGCCCA	98					

```

RESULT 7
US-09-513-999C-19652
: Sequence 19652, Application US/09513999C
: GENERAL INFORMATION:
: APPLICANT: Dumas Milne Edwards, J.B.
: APPLICANT: Duclert, A.
: APPLICANT: Giordano, J.Y.
: TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
: FILE REFERENCE: 59, US2, REG
: CURRENT APPLICATION NUMBER: US/09/513, 999C
: CURRENT FILING DATE: 2000-02-24
: PRIOR APPLICATION NUMBER: US 60/122,487
: PRIOR FILING DATE: 1999-02-26
: NUMBER OF SEQ ID NOS: 36681
: SOFTWARE: Patent.pm
: SEQ ID NO 19652
:
: LENGTH: 99
:
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-513-999C-19652

```

[illegible]

RESULT 8  
US-09-513-999C-19833/C  
; Sequence 19833, Application US/09513999C  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.

```

?      APPLICANT: Giordano, J. Y.
?      TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
?      FILE REFERENCE: 59,452, REG
?      CURRENT APPLICATION NUMBER: US/09/513, 999C
?      CURRENT FILING DATE: 2000-02-24
?      PRIOR APPLICATION NUMBER: US 60/122, 487
?      PRIOR FILING DATE: 1999-02-26
?      NUMBER OF SEQ ID NOS: 36681
?      SOFTWARE: Patent.pm
?      SEQ ID NO: 19833
?      LENGTH: 93
?      TYPE: DNA
?      ORGANISM: Homo sapiens
?      US-09-513-999C-19833

Query Match          1.0%   Score 68.6; DB 5; Length 93;
Best Local Similarity 84.6%   Pred. No. 0.61;
Matches 77; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

```

QY	4144	GSTGATCCACCCACCTCAACCTCCCAAGTG	4174
Db	31	AGTGAACCAACCCGCGCTCGACCTCTCATATG	1
QY	4084	TTTTTGGTAGAGACAGGGGTTTTGGCCGTGTGGCCGGCGCTGCGAATCTGTGACCTCG	4143
Db	91	TTTTTAGTAGAGGGGGGTTTTGGCCGTGTGGCCAGCGCTGGCTTGACATCTGTGCTCA	32

```

RESULT 9
US-09-513-999C-19825/c
: Sequence 19825, Application US/09513999C
: GENERAL INFORMATION:
: APPLICANT: Dumas Milne Edwards, J.B.
: APPLICANT: Duclert, A
: APPLICANT: Giordano, J.Y.
: TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
: FILE REFERENCE: 59, US2, REG
: CURRENT APPLICATION NUMBER: US/09/513, 999C
: CURRENT FILING DATE: 2000-02-24
: PRIOR APPLICATION NUMBER: US 60/122,487
: PRIOR FILING DATE: 1999-02-26
: NUMBER OF SEQ ID NOS: 36681
: SOFTWARE: Patent.pm
: SEQ ID NO 19825 .
: .
: . LENGTH: 95
: .
: . TYPE: DNA
: .
: . ORGANISM: Homo sapiens
US-09-513-999C-19825

```

Query Match	1.0%	Score 68.4	DB 5	length 95
Best Local Similarity	92.3%	Pred. No. 0.64		
Matches	72	Conservative	0	Mismatches 6; Indels 0; Gaps 0;
Qy	4119	GGCTGATCGAAGCTGTGACCTCGGGGTGATCCACCACTAGCCTCCCAAGTGTGG	4178	
Db	78	GGCTGATCGAAGCTGTGACCTCGAGTGTATCGCCCGCTCAGCCTCCAAAAGTGTGG	19	
Qy	4179	GATTCAAGCTGAGCCA	4196	
Db	18	GATTACAGGCGTGAAGCCA	1	

```

RESULT 10
US-09-513-999C--20263
: Sequence 20263, Application US/09513999C
: GENERAL INFORMATION:
: APPLICANT: Dumas Milne Edwards, J.B.
: APPLICANT: Duchet, A.
: TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
: FILE REFERENCE: 59, US2, REG
: CURRENT APPLICATION NUMBER: US/09/513, 999C
: CURRENT FILING DATE: 2000-02-24

```

```
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 20263
; LENGTH: 97
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-20263

Query Match
Best Local Similarity 1.0%; Score 67.6; DB 5; Length 97;
Best Local Similarity 84.4%; Pred. No. 0.81;
Matches 76; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

OY 3999 TCTTGGGTTCAAGCATCTCTGCTTCAGCCTCCCGAGTAGTGGGACTACAGGACCC 4058
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 2 TCTTGGGTTCAAGCATCTCTGCTTCAGCCTCCCGAGTAGTGGGACTACAGGACCC 61

OY 4059 ACCATCATGTCTGCTAAATTTTCATTTT 4088
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 62 GCCACGACGCCGAGCTAATTTTTTTTTT 91

RESULT 11
US-09-513-999C-19012
; Sequence 19012, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 19012
; LENGTH: 89
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-19012

Query Match
Best Local Similarity 1.0%; Score 67.2; DB 5; Length 89;
Best Local Similarity 85.2%; Pred. No. 0.92;
Matches 75; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

OY 5196 CCCAGGACGCTTGAAGTCTGAGCTTCAAGTATCTCTGCTCAGCCTCCCAAGTG 5255
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 1 CCCAGGACGCTTGAAGTCTGAGCTTCAAGTATCTCTGCTCAGCCTCCCAAGTG 60

OY 5256 CTGGGATTACAGGTGTGACCAACACAC 5283
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 61 CTGGGATTACAGGTGTGACCAACACAC 88

RESULT 12
US-09-513-999C-20264
; Sequence 20264, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 20264
```

```
; LENGTH: 97
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 90
; OTHER INFORMATION: k=g or t
US-09-513-999C-20264

Query Match
Best Local Similarity 1.0%; Score 67.2; DB 5; Length 97;
Best Local Similarity 83.3%; Pred. No. 0.91;
Matches 75; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

OY 3999 TCTTGGGTTCAAGCATCTCTGCTTCAGCCTCCCGAGTAGTGGGACTACAGGACCC 4058
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 2 TCTTGGGTTCAAGCATCTCTGCTTCAGCCTCCCGAGTAGTGGGACTACAGGACCC 61

OY 4059 ACCATCATGTCTGCTAAATTTTCATTTT 4088
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 62 GCCACGACGCCGAGCTAATTTTTTTTTT 91

RESULT 13
US-09-513-999C-17082
; Sequence 17082, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 17082
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 17
; OTHER INFORMATION: s=g or c
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 34
; OTHER INFORMATION: s=g or c
US-09-513-999C-17082

Query Match
Best Local Similarity 1.0%; Score 66.8; DB 5; Length 93;
Best Local Similarity 82.2%; Pred. No. 1;
Matches 74; Conservative 2; Mismatches 14; Indels 0; Gaps 0;

OY 3984 ACTGCAACCTCCGCTCTTGGGTTCAAGGATTTCTGCTCAGCCGCCAGTAGCTG 4043
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 1 ACTGCAAGCTCCGCTTSCGGGTTCAAGGATTTCTGCTCAGCCGCCAGTAGCTG 60

OY 4044 GCACTACAGGACCCGACCATCATGTCTGCG 4073
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 61 GCACTACAGGTCGCCGACCATCATGTCTGCG 90

RESULT 14
US-09-513-999C-34460/C
; Sequence 34460, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
```

```

; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 34460
; LENGTH: 89
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-34460

Query Match
Best Local Similarity 84.1%; Score 65.6; DB 5; Length 89;
Matches 74; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 5184 CTCACATATGTCGCCAGCAGCTGTGAACCTCGCCTCAAGTATCTCTGCTCAG 5243
Db 88 CTCGCTATGTGCGCCAGGCTGCTCAACTGCGGCTCAAGTATCTCTGCTCAG 29

QY 5244 CTCGCCAAGTGTGGGATTACAGTGT 5271
Db 28 CTCGCCAAGTGTGAGATTACAGGCT 1

RESULT 15
US-09-513-999C-18226/C
; Sequence 18226, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 18226
; LENGTH: 88
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 71
; OTHER INFORMATION: r=a or g
US-09-513-999C-18226

Query Match
Best Local Similarity 83.0%; Score 65.2; DB 5; Length 88;
Matches 73; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

QY 5174 GAGCCAGGCTCTACTATGTTGCCAGCAGCTTGAACCTCTGCGCTCAAGTATCT 5233
Db 88 GAGACAGGCTCTACTATGTTGCCAGCTGCTCAACTCTGCGCTCAAGTATCT 29

QY 5234 CTTGCTTCAGCTCCCAAGTGTGGGA 5261
Db 28 CCACCTTGCTCTCTGAGTGTGAGA 1
```

Search completed: January 4, 2003, 20:32:17  
Job time : 330 secs





GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:05:21 : Search time 5552 Seconds  
(without alignments)  
19462.568 Million cell updates/sec

Title: US-10-006-366-3  
Perfect score: 6672  
Sequence: 1 ccccccaactgctgactggt.....ttactttgttcaacttgt 6672

Scoring table: IDENTITY-NUC  
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues  
Total number of hits satisfying chosen parameters: 345212

Minimum DB seq length: 0  
Maximum DB seq length: 99

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

EST:\*  
1: em\_estba:\*  
2: em\_esthum:\*  
3: em\_estin:\*  
4: em\_estnu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: gb\_est1:\*  
10: gb\_est2:\*  
11: gb\_hic:\*  
12: gb\_est3:\*  
13: gb\_est4:\*  
14: gb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: gb\_gss:\*  
18: em\_gss\_hum:\*  
19: em\_gss\_inv:\*  
20: em\_gss\_pln:\*  
21: em\_gss\_vrt:\*  
22: em\_gss\_fun:\*  
23: em\_gss\_mam:\*  
24: em\_gss\_mus:\*  
25: em\_gss\_other:\*  
26: em\_gss\_pro:\*  
27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	75.6	1.1	99	13	BI017753 PM3-ET027
2	73.8	1.1	95	9	AA669571 ac18d10.s
3	72	1.1	82	14	T81021 yq25b03.s1
4	72	1.1	99	13	BS977835 MR2-CT012
5	71.6	1.1	94	10	AM339643 he15e10.x
6	71.6	1.1	96	17	AF149606 AF149606

Result No.	Score	Query Match	Length	ID	Description
7	69.8	1.0	99	10	AM861507 RC2-CT032
8	69.2	1.0	99	10	AM474905 xy21d11.x
9	68.8	1.0	98	14	H67549 yu68f10.s1
10	67.2	1.0	99	9	AA486800 ab19a06.r
11	66.6	1.0	97	17	AF149649 AF149649
12	66.4	1.0	92	14	F30221 HSPD20571 H
13	66	1.0	99	14	F26219 HSPD13614 H
14	65.6	1.0	87	14	T62174 yb96c02..r1
15	65	1.0	90	9	AA608742 ae56g04.s
16	64.8	1.0	95	9	AA457423 aa86b02.r
17	64	1.0	91	9	AA053038 z171e12.s
18	63.8	1.0	91	17	BH770807 LMGtag5
19	63.8	1.0	98	9	AA280198 zt04b12.r
20	63.6	1.0	97	12	BF542018 602069163
21	63.2	0.9	84	14	F28887 HSPD18432 H
22	63	0.9	82	9	AA649287 ns12h07.s
23	63	0.9	87	17	AA257625 AS7-TD14S
24	62.8	0.9	82	9	AA454805 zx77f08.r
25	62.8	0.9	90	9	AA180452 zp14e02.s
26	62.4	0.9	81	9	AA775155 ac78e03.s
27	62.4	0.9	99	12	BC029559 602296728
28	61.8	0.9	95	9	AA665078 nu76b10.s
29	61.8	0.9	99	9	AA077606 7B27B09.C
30	61.6	0.9	92	9	AA729064 tw22f09.s
31	61.6	0.9	95	9	AA923035 OK82a01.S
32	60.8	0.9	93	9	AA168167 oo09e10.x
33	60.2	0.9	82	17	AF219090 AF219090
34	60	0.9	79	12	BC108795 BRPE0923
35	60	0.9	92	9	AA486752 ab17b03.s
36	60	0.9	92	10	AM072612 xa37d09.x
37	60	0.9	93	12	BG674517 602620555
38	60	0.9	96	12	BF130198 601818222
39	59.8	0.9	92	17	AF149464 AF149464
40	59.8	0.9	94	14	T82910 yd39d02.r1
41	59.8	0.9	99	14	BQ446872 UI-H-EU1-
42	59.6	0.9	90	9	AA828120 og71a01.s
43	59.6	0.9	91	14	F24101 HSPD10121 H
44	59.6	0.9	91	17	AA275706 ew08c06.r
45	59.6	0.9	96	9	AA494010 ng60b01.s

#### ALIGNMENTS

RESULT 1  
LOCUS BI017753 99 bp mRNA linear EST 13-JUN-2001  
DEFINITION PM3-ET0277-160401-003-h09\_1 ET0277 Homo sapiens cDNA, mRNA  
ACCESSION BI017753  
VERSION BI017753.1 GI:14421824  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE  
AUTHORS Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Mammalia: Eutheria: Primates: Catarrhini: Homiinae: Homo.  
1 (bases 1 to 99)  
Dias Neto E., Garcia Correa R., Verjovski-Almeida S., Briones M.R., Nagai M.A., da Silva W. Jr., Zago M.A., Bordin S., Costa F.F., Goldman G.H., Carvalho A.F., Matsukuma A., Bata G.S., Simpson D.H., Brunstein A., de Oliveira P.S., Bucher P., Jongeneel C.V., O'Hare M.J., Soares F., Brentani R.R., Reis L.F., de Souza S.J. and Simpson A.J.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags  
JOURNAL MEDLINE  
COMMENT Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)  
Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil  
Tel: +55-11-2704922

Fax: +55-11-2707001  
Email: [asimpson@ludwig.org.br](mailto:asimpson@ludwig.org.br)  
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
(<http://www.ludwig.org.br/scripts/gethtml2.pl?tl1-PM3set2-PM3-ET0277-160401-003-h09.16f3=2001-04-16&cl=1>)  
seq primer: nuc 18 forward

High quality sequence stop: 99.  
Location/qualifiers

FEATURES  
source

```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="Er0276"
/dev_stage="Adult"
/note="Organ: lung_tumor; Vector: puc18; Site:1: Sma1;
Site:2: Sma1; A mini-library was made by cloning products
derived from ORS785 PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

```

Query Match	1.1%;	Score 75.6;	DB 13,	Length 99;
Best Local Similarity	85.7%;	Pred. No. 0.015;		
Matches 84;	Conservative 0;	Mismatches 14;	Indels 0;	Gaps 0;

QY 5190 ATGTTGCCCGAGGCTTGAACTCCTGGCCCAAGTGATTCTCCTGCCCTCAGCCTCC 5249

Db 2 ATGTTGCCAGACTGCTCTCGAAGCTCCTGAGCTCAAGTATCTCTCTTTAGGCCCTCC 61

QY 5250 AAAGTGCCTGGGATTACAGGTGTGAACCACCAACCCAG 5287  
|||||  
62 AAAGTGCTGGGATTACAGTTGTGAGCCACCAACGCCAG 99

RESULT 2	LOCUS	DEFINITION
AA669571	95 bp	Stratagene ovary (#937217) Homo sapiens cDNA clone

ACCESSION	AA669571	
VERSION	AA669571.1	GI:26310700
KEYWORDS	EST.	
SOURCE	human.	
ORGANISM	Homo sapiens	

REFERENCE  
AUTHORS  
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisels, G., Jost, S.,  
1 (bases 1 to 95)  
Mammalia: Eutheria: Primates; Catarrhini; Hominoidea: Homo.

TITLE  
JOURNAL  
COMMENT

WashU-NCI human EST Project  
Unpublished (1997)  
Contact: Wilson RK

Rizman,D., Kucada,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,  
J., Moore,B., Schellenberg,K., Stepien,M., Tan,F., Thelning,B.,  
White,Y., Wylie,T., Waterston,R. and Wilson,R.

Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: [estewartson.wustl.edu](mailto:estewartson.wustl.edu)  
This clone is available royalty-free through LNT; contact the  
IMaD Consortium ([info@image.lnlgov](mailto:info@image.lnlgov)) for further information.  
Seq primer: -40m13 fwd. Et from Amersham.

**FEATURES**  
**Source**

```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:856819"
/clone_lib="Stratagene ovary (#937217)"
/sex="female"

```

```

/dev.stage="49 year old"
/lab.host="SOLR cells (kanamycin resistant)"
/note="Organ: ovary, Vector: Bluescript SK, Site.1: EcoRI
Site.2: XhoI; Cloned unidirectionally. Primer: Oligo dT.
Total ovary tissue, normal, caucasian. Average insert
size: 0.8 kb; uni-ZAP XR Vector: ~5' adaptor sequence: 5'
GAATTCGCGACGAG 3', ~3' adaptor sequence: 5'
CTCGAGTTTTTTTTTTTTTTTTT 3'."
BASE COUNT      15 a      30 c      24 g      26 t
ORIGIN

```

Query Match	1.1%	Score 73.8;	DB 9;	Length 95;
Best Local Similarity	87.1%	Pred. No. 0.029;		
Matches 81; Conservative	0;	Mismatches 12;	Indels 0;	Gaps 0;

**Qy**    3945 TGTTCGCCAGGCTGGCGTGCAGTGTGCATCTGGGTTCACTGCACCTCCGCCCTTG 40  
       ||||| |||| | |||| | |||| | |||| | |||| | |||| | |||| | ||||  
**Db**     3 TGTTCGCCAAGCTGGAGTGCACCTG6CATGATCTTGGCTCACATGCACAACCTCCGCCCTTG 62

QY 4005 GTTCAAGCGATCTCTCTGCTTCAGCCCTCCCGAG 4037  
||||| ||||||| |||| |||||||  
Db 63 GTTCAAGAGATCTCTCTGCTTCAGCGTCCCGAG 95

RESULT 3	
LOCUS	T81021
DEFINITION	T81021 82 bp -mRNA .linear EST 15-MAR-1995 y025003.s1 Soares fetal liver spleen INELS Homo sapiens CDNA clone

sequence.  
P01001

ACCESSION	T81021	GI:703906
VERSION	T81021.1	
KEYWORDS	EST.	
SOURCE	human.	

REFERENCE  
AUTHORS

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
1 (bases 1 to 82)  
Hillier, L., Clark, N., Dubuque, T., Eilston, K., Hawkins, M., Holman

AUTHORS  
 Allister, L., Clark, N., Dubucque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rolling, T., Soares, M., Tan, F., Trevasakis, E., Waterston, R., Williamson, A., Woldmann, P. and Wilson, R.  
 TITLE  
 The WashU-Merck EST Project  
 JOURNAL  
 Unpublished (1995)  
 COMMENT  
 Other\_ESTs: y425b03..r1

Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: [esc@watson.wustl.edu](mailto:esc@watson.wustl.edu)  
Insert Size: 725  
High quality sequence stops: 73 Source: IMAGE Consortium, LNL. This  
clone is available royalty-free through LNL; contact the IMAGE  
Consortium ([info@image.lnl.gov](mailto:info@image.lnl.gov)) for further information.  
Insert Length: 725 Std Error: 0.00  
Seq primer: \*21m13  
High quality sequence stop: 73.

## FEATURES

### source

```

/organism="Homo sapiens"
/db_xref="CDB:464846"
/db_xref="taxon:9606"
/clone="IMAGE:109229"
/clone_lib=" Soares fetal liver spleen INFLS"
/sex="male"
/dev_stage="20 week post conception fetus"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: Liver and Spleen; Vector: pT73D (Pharmacia) with a modified polylinker; Site 1: Pac I; Site 2: Eco RI; 1st strand cDNA was primed with a Pac I - oligo(dT) primer [5' AACGCAAGATTAATTAAGAATCTTTTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors

```

(Pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT

15 a 25 c 18 g 24 t

Query Match 1.1%; Score 72; DB 14; Length 82;  
Best Local Similarity 93.8%; Pred. No. 0.061;  
Matches 75; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5189 TATGTTGCCAGGAGCTCTGTAAGTCTGCGCTCAAGTATCTCTGCTCAGCCTCC 5248  
|||||  
Db 2 TATGTTGCCAGGAGCTCTGTAAGTCTGCGCTCAAGTATCTCTGCTCAGCCTCC 61

QY 5249 CAAAGTGGCGGATTACAG 5268  
|||||  
Db 62 CAAAGTGGCGGATTACAG 81

RESULT 4  
BG977835

LOCUS MR2-C10128-110101-016-f07\_1 C10128 Homo sapiens cDNA, mRNA  
DEFINITION 99 bp mRNA linear EST 12-JUN-2001

ACCESSION BG977835  
VERSION BG977835.1 GI:14380570

KEYWORDS EST.  
SOURCE human.

ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE

1 (bases 1 to 99)  
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Bioness, M.R.,  
Negai, M.A., da Silva, W.J., Zago, M.A., Bordin, S., Costa, F.F.,  
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H.,  
Brustein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,  
M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and  
Simpson, A.J.

Shotgun sequencing of the human transcriptome with ORF expressed  
sequence tags

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

JOURNAL  
MEDLINE

COMMENT Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001

Email: asimpson@ludwig.org.br  
This sequence was derived from the FAPESP/LICR Human Cancer Genome  
Project. This entry can be seen in the following URL  
(http://www.ludwig.org.br/scripts/gethtml2.pl?fl=MR2&ct=MR2-C10128-  
110101-016-f07\_1&f3=2001-01-11&f4=1)

Seq primer: puc 18 forward  
High quality sequence stop: 99.

Location/Qualifiers

1..99

FEATURES

Source

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_id="C10128"

/dev\_stage="Adult"

/note="Organ: colon, ins: Vector: puc18; Site:1: SmaI;  
Site:2: SmaI; A mini-library was made by cloning products  
derived from ORSTS PCR (U.S. Letters Patent application  
No. 196,716 - Ludwig Institute for Cancer Research)  
profiles into the pUC 18 vector. Reverse transcription of  
tissue mRNA and cDNA amplification were performed under  
low stringency conditions."

BASE COUNT 13 a 34 c 28 g 21 t 3 others

ORIGIN

Query Match 1.1%; Score 72; DB 13; Length 99;  
Best Local Similarity 81.8%; Pred. No. 0.058;  
Matches 81; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 3945 TGTGCCAGGCTGGCGAGTGTGCGATCTGCTCACTGCAACCTCCCTCTGG 4004  
|||||  
Db 1 TGTGCCAGGCTGGCGAGTGTGCGATCTGCTCACTGCAACCTCCCTCTGG 60

QY 4005 GTTCAACGATCTCTCTGCTTCAAGCTCCCGAGTACTG 4043  
|||||  
Db 61 GTTCAACGATCTCTCTGCTTCAAGCTCCCGAGTACTG 99

RESULT 5  
AM339643

LOCUS AM339643 94 bp mRNA linear EST 31-JAN-2000  
DEFINITION hcl5e10.x1 NCI-CGAP CML1 Homo sapiens cDNA clone IMAGE:2919114 3'  
similar to contains Alu repetitive element//; mRNA sequence.

ACCESSION AM339643  
VERSION AM339643.1 GI:6836269

KEYWORDS EST.

SOURCE human.

ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE

1 (bases 1 to 94)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)

CONTACT: Robert Strausberg, Ph.D.  
Email: cga@bcrfemail.nih.gov

Tissue procurement: Elisabeth Paietta, Jonathan D. Licht, M.D.,  
Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: Life  
Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The  
I.M.A.G.E. Consortium DNA Sequencing by: Washington University  
Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www.bio.llnl.gov/dbp/image/image.html

Possible reversed clone: polyT not found  
Seq primer: -40UP from Gibco  
High quality sequence stop: 90.

FEATURES

Source

1..94

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_id="NCI-CGAP CML1"

/tissue\_type="myeloid cells, 18 pooled CML cases, BCR/ABL  
rearrangement positive, includes both chronic phase and  
myeloid blast crisis"

/lab\_host="DH10B"

/note="Organ: whole blood; Vector: PCMV-SPORT6; Site:1:  
SalI; Site:2: NotI; Cloned unidirectionally. Primer:  
Oligo dt. Library constructed by Life Technologies."

BASE COUNT 18 a 28 c 24 g 24 t

ORIGIN

Query Match 1.1%; Score 71.6; DB 10; Length 94;  
Best Local Similarity 85.1%; Pred. No. 0.068;  
Matches 80; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 5171 GTAGAGCCAGGCTCTACTATGTTGCCAGGAGCTTGAAGTCTGCTCAAGTAT 5230  
|||||  
Db 1 GTAGAGATGTGCTCATCTATGTTGCCAGGAGCTGCTGAAGTCTGCTCAAGTAT 60

QY 5231 TGTCCGCTCAGCCTCCCAAGTGTGGGATTA 5264  
|||||  
Db 61 CTTCCACCCCGGCTTCCCAAGTGTGGGATTA 94

[illegible]

JOURNAL	MEDLINE	COMMENT
TITLE	'M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson A.J.	
SEQUENCE TAGS	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags	
PROC. NATL. ACAD. SCI. U.S.A.	97 (7), 3491-3496 (2000)	
2020263		
CONTACT: SIMPSON A.J.G.		
LABORATORY OF CANCER GENETICS		
LUDWIG INSTITUTE FOR CANCER RESEARCH		
RUA PROF. ANTONIO PRUDENTE 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil		
TEL: +55-11-2704922		
FAX: +55-11-2707001		
EMAIL: asimpson@ludwig.org.br		
THIS SEQUENCE WAS DERIVED FROM THE FAPESP/LICR HUMAN CANCER GENOME PROJECT. THIS ENTRY CAN BE SEEN IN THE FOLLOWING URL		
( <a href="http://www.ludwig.org.br/scripts/gethtml2.pl?ptl=6t2-RC2-CT0320-281199-012-PL11&amp;tct=1999-11-28&amp;t4=1">http://www.ludwig.org.br/scripts/gethtml2.pl?ptl=6t2-RC2-CT0320-281199-012-PL11&amp;tct=1999-11-28&amp;t4=1</a> )		
SEQ PRIMER: puc 18 forward		
HIGH QUALITY SEQUENCE STOP: 95.		
FEATURES		
SOURCE		
1. .99		
/organism="Homo sapiens"		
/db_xref="taxon:9606"		
/clone_lib="CT0320"		
/def_stage="Adult"		
/note="Organ: colon; Vector: puc18; Site_1: Sma1; Site_2: Sma1; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."		
BASE COUNT	30 a	19 t
ORIGIN	17 c	33 g
Query Match	1.0%	Score 69.8; DB 10; Length 99;
Best Local Similarity	82.5%;	Pred. 0.13; 17; Indels 0; Gaps 0;
Matches	80; Conservative	0; Mismatches
QY	3992	CTCCGCTCTTGGGGTTCAAGCGATCTCTCTCCAGCCCTCCGAGTAGCTGCGACTACA 4051
DB	99	CTCCACGCTTCAGGTTCAAGCATTTCTCTGCTGCTCCCGATGAGCTGGGACTACA 40
QY	4052	GGCACCACCATCATGCTGGCTAATTTTTCATTTT 4088
DB	39	GGCGTCTGCCACCATACCTGCTAATTTTGTATTTT 3
RESULT 8		
LOCUS	AW474905	
DEFINITION	AW474905 99 bp mRNA linear EST 24-FEB-2000	
ACCESSION	AW474905	
VERSION	AW474905.1	
KEYWORDS	EST.	
SOURCE	human.	
ORGANISM	Homo sapiens	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
TITLE	1 (bases 1 to 99)	
JOURNAL	NCI-CCGAP <a href="http://www.ncbi.nlm.nih.gov/ncicgap">http://www.ncbi.nlm.nih.gov/ncicgap</a> .	
COMMENT	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index	
	Unpublished (1997)	
	Contact: Robert Strausberg, Ph.D.	
	Email: cga@bbs.fda.gov	
	Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.	
	CDNA Library Preparation: Life Technologies, Inc.	
	CDNA Library Arrayed by: Greg Lennon, Ph.D.	

```
source
1. .99
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_1b="IMAGE:841234"
/clone_1b="Stratgene lung (#937210)"
/sex="male"
```

```

/dev-stage="72 years"
/lab-host="SOLR cells (kanamycin resistant)"
/notes="Organ: Lung; Vector: pBluescript SK-; Site: 1: EcoRI
; Site: 2: XhoI; Cloned unidirectionally. Primer: Oligo
dT, normal lung. Average insert size: 1.0 kb; Uni-ZAP XR
Vector: -5' adaptor sequence: 5' GAATTCGGCAGCAG 3' -3'
adaptor sequence: 5' CTCGAGCTTTTCTTTTCTTTT 3'"

BASE COUNT      22 a      20 c      40 g      17 t
ORIGIN

Query Match      1.0%; Score 67.2; DB 9; Length 99;
Best Local Similarity 81.2%; Pred. No. 0.36;
Matches 78; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 3974 ATCTGGTTCATCTGCACACCTCCGCTCTTGGTTCAAGCATCTCTGCTCAGGCTCC 4033
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 99 ATCTGGTTCATCTGCACACCTCCGCTCTTGGTTCAAGCATCTCTGCTCAGGCTCC 40
QY 4034 CGAGTACCTGGAGCTACAGGACCCACCATCATGTC 4069
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 39 CTAGTACCTGGAGCTACAGGATTCATGTCACCCGCC 4

RESULT 11
AF149649      97 bp      DNA      linear      GSS 12-JUN-2000
LOCUS      AF149649 Human chromosome 18q21 from exon-trapping Homo sapiens
DEFINITION      genomic clone 5m14, DNA sequence.
ACCESSION      AF149649
VERSION      AF149649.1 GI:8485987
KEYWORDS      GSS.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1 (bases 1 to 97)
AUTHORS      Chen,H., Huo,Y., Patel,S., Zhu,X., Swift-Scanlan,T., Reeves,R.H.,
DePaulo,R., Jr., Ross,C.A. and McInnis,M.G.
TITLE      Gene identification using exon amplification on human chromosome
18q21: implications for bipolar disorder
JOURNAL      Mol Psychiatry 5 (5), 502-509 (2000)
MEDLINE      20485132
COMMENT      Contact: Chen H
psychiatry and Behavioral Sciences
Johns Hopkins University School of Medicine
600 N. Wolfe Street, Baltimore, MD 21287, USA
Email: hcewelchlink.welch.jhu.edu
Class: exon-trapped.
FEATURES
source
location/Qualifiers
1..97
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="18q21"
/clone="5m14"
/clone_lib="Human chromosome 18q21 from exon-trapping"
/notes="bacterial artificial chromosome library prepared in
pBACs.6 vector via DNA partially digested with a
combination of EcoRI and EcoRI methylase for library
segments 162 or either MboI or DpnII for library segments
364. Size selected DNA was cloned into the pBACs.6 vector
at the EcoRI sites for library segments 162 (plates 1-480)
or the BamHI sites for library segments 364 (plates
481-1056). http://www.choi.org/bacpac/"

BASE COUNT      16 a      31 c      28 g      22 t
ORIGIN

Query Match      1.0%; Score 66.6; DB 17; Length 97;
Best Local Similarity 80.4%; Pred. No. 0.45;
Matches 78; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 3956 CTGGCGTGCAGTGTGCGATCTGGGTTCACTGACACCTCCGCTCTTGGGTTCAAGCAT 4015
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 CTGGAGTGCAGTGTGCGGATCTGGGTTCACTGACACCTCCGCTCTTGGGTTCAAGCAT 60

```

```

QY 4016 TCTTCTCTTCAAGCCCTCCGAGTACCTGGACTACAG 4052
      ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 CTCTCTGTCTCAAGCCCTCTGAGTACTGAGACTACAG 97

RESULT 12
F30221/C      92 bp      mRNA      linear      EST 13-MAY-1999
LOCUS      F30221 HSPD20571 HM3 Homo sapiens cDNA clone s400009612, mRNA sequence.
DEFINITION      F30221
ACCESSION      F30221
VERSION      F30221.1 GI:4815847
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1 (bases 1 to 92)
AUTHORS      Lanfranchi,G., Muraro,T., Caldera,F., Pacchioni,B., Pallavicini,A.,
Pandolfo,D., Toppo,S., Trevisan,S., Scarso,S. and Valle,G.
TITLE      Identification of 4370 expressed sequence tags from a
3'-end-specific cDNA library of human skeletal muscle by DNA
sequencing and filter hybridization
JOURNAL      Genome Res. 6 (1), 35-42 (1996)
MEDLINE      96276048
COMMENT      Contact: Valle G.
CIRBIT Biotechnology Centre
University of Padua
Via Trieste 75, 35121 Padua, Italy
ABI Chromatograms and other information are available on WWW at
http://grup.bio.unipd.it.
FEATURES
source
location/Qualifiers
1..92
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="s400009612"
/clone_lib="HM3"
/sex="female"
/tissue_type="pectoral muscle (after mastectomy)"
/notes="Vector: pCDN4II (Invitrogen); Site: 1: BstXI;
Site: 2: NotI. The library was constructed by G.
Lanfranchi. This library is not subtracted nor normalized.
The first strand cDNA was primed with a biotinylated
oligo-dT-NotI primer
(5'-biotin-AACCGCGTCGAGCGGCGCTTTTCTTTTCTTTT-3'). The
ds cDNA was sonicated and size-selected in the range
350-550 bp. The 3' specific fragments were selected by
streptavidin coated magnetic beads, ligated to
non-palindromic BstXI adapters, NotI digested and
directionally cloned into BstXI-NotI cut pCDN4II vector."

BASE COUNT      20 a      22 c      33 g      17 t
ORIGIN

Query Match      1.0%; Score 66.4; DB 14; Length 92;
Best Local Similarity 82.6%; Pred. No. 0.49;
Matches 76; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 3949 GCCCAGCTGGCGCTGCATGTCGATCTGGGTTCACTGACACCTCCGCTCTTGGGTTT 4008
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 92 GCCCAGCTGGCGCTGCATGTCGATCTGGGTTCACTGACACCTCCGAGGTTT 33
QY 4009 AAGCGATCTCTTCGCTTCAGCCGCCGAGTAG 4040
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 32 AAGCGATCTCTTCACATCATTCCTCCGAGGAG 1

RESULT 13
F26219      99 bp      mRNA      linear      EST 13-MAY-1999
LOCUS      F26219 HSPD13614 HM3 Homo sapiens cDNA clone s4000051B06, mRNA sequence.
DEFINITION      F26219
ACCESSION      F26219
VERSION      F26219.1 GI:4811845
KEYWORDS      EST.

```

SOURCE	ORGANISM	human.
REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	
AUTHORS	1 (bases 1 to 99)	
TITLE	Lanfranchi,G., Muraro,T., Caldare,F., Pacchioni,B., Pallavicini,A., Pandolfi,D., Toppo,S., Trevisan,S., Scarsio,S. and Valle,G. Identification of 4370 expressed sequence tags from a 3'-end-specific cDNA library of human skeletal muscle by DNA sequencing and filter hybridization	
JOURNAL	Genome Res. 6 (1), 35-42 (1996)	
MEDLINE	96276048	
COMMENT	Contact: Valle G. CIRI Biotechnology Centre University of Padua Via Trieste 75, 35121 Padua, Italy ABI Chromatograms and other information are available on WWW at <a href="http://group.bio.unipd.it">http://group.bio.unipd.it</a> .	
FEATURES	Location/Qualifiers	
SOURCE	1..99	
	/organism="Homo sapiens"	
	/db_xref="taxon:9606"	
	/clone="s4000051B06"	
	/clone_lib="HM3"	
	/sex="female"	
	/tissue_type="pectoral muscle (after mastectomy)"	
	/note="Vector: pCDM11 (Invitrogen); Site_1: BstXI; Site_2: NotI; The library was constructed by G. Lanfranchi. This library is not subtracted nor normalized. The first strand cDNA was primed with a biotinylated oligo-dT-NotI primer	
	(5'-biotin-AACCGGCGCTCGACCGCCGCTTTTCTTTTCTTTT-3'). The ds cDNA was sonicated and size-selected in the range 350-550 bp. The 3' specific fragments were selected by streptavidin coated magnetic beads, ligated to non-palindromic BstXI adapters, NotI digested and directionally cloned into BstXI-NotI cut pCDM11 vector."	
BASE COUNT	19 a 28 c 22 g 30 t	
ORIGIN		
Query Match	1.0%; Score 66; DB 14; Length 99;	
Best Local Similarity	79.6%; Pred. No. 0.56;	
Matches	78; Conservative 0; Mismatches 20; Indels 0; Gaps 0;	
QY	4077 TTTTTCATTTTGGTAGAGACAGGGGTTTTGCGGTG7GCGGCTGCTCGAAGCTT 4136	
DB	2 TTTTGTATTTAGAGGAGCGGGGTTTCACATGATGTGGCCAGGCTGGTCAAGCTCT 61	
QY	4137 GACCTCGGGTGATCCACCCAGCTCAGCCTCCCAAGTG 4174	
DB	62 GAGCTCAGGCATCTGCCACCTCAGCCTCCCAAGTG 99	
RESULT 14		
LOCUS	T62174/c	
DEFINITION	T62174 yb96c02.r1 Stratagene lung (#37210) Homo sapiens cDNA clone IMAGE179010 5' similar to contains Alu repetitive element;; mRNA sequence.	
ACCESSION	T62174	
VERSION	T62174.1	
KEYWORDS	GI:665417	
SOURCE	EST.	
ORGANISM	human.	
REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	
AUTHORS	1 (bases 1 to 87)	
TITLE	Hillier,L., Lennon,G., Becker,M., Donald,M.F., Chiapelli,B., Chissole,S., Dietrich,N., Dubuque,T., Favellio,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mards,E., Moore,B., Morris,M., Parsons,J., Prange,C., Riffin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevisan,S., Underwood,K., Wollmann,P., Waterston,R., Wilson,R. and Marra,M.	
REFERENCE	EST 14-FEB-1995	
AUTHORS	87 bp mRNA linear EST 14-FEB-1995	
LOCUS	T62174	
DEFINITION	yb96c02.r1 Stratagene lung (#37210) Homo sapiens cDNA clone IMAGE179010 5' similar to contains Alu repetitive element;; mRNA sequence.	
ACCESSION	T62174	
VERSION	T62174.1	
KEYWORDS	GI:665417	
SOURCE	EST.	
ORGANISM	human.	
REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	
AUTHORS	1 (bases 1 to 87)	
TITLE	Hillier,L., Lennon,G., Becker,M., Donald,M.F., Chiapelli,B., Chissole,S., Dietrich,N., Dubuque,T., Favellio,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mards,E., Moore,B., Morris,M., Parsons,J., Prange,C., Riffin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevisan,S., Underwood,K., Wollmann,P., Waterston,R., Wilson,R. and Marra,M.	
REFERENCE	EST 14-FEB-1995	
AUTHORS	87 bp mRNA linear EST 14-FEB-1995	
LOCUS	T62174	
DEFINITION	yb96c02.r1 Stratagene lung (#37210) Homo sapiens cDNA clone IMAGE179010 5' similar to contains Alu repetitive element;; mRNA sequence.	
ACCESSION	T62174	
VERSION	T62174.1	
KEYWORDS	GI:665417	
SOURCE	EST.	
ORGANISM	human.	
REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	
AUTHORS	1 (bases 1 to 87)	
TITLE	Hillier,L., Lennon,G., Becker,M., Donald,M.F., Chiapelli,B., Chissole,S., Dietrich,N., Dubuque,T., Favellio,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mards,E., Moore,B., Morris,M., Parsons,J., Prange,C., Riffin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevisan,S., Underwood,K., Wollmann,P., Waterston,R., Wilson,R. and Marra,M.	
REFERENCE	EST 14-FEB-1995	
AUTHORS	87 bp mRNA linear EST 14-FEB-1995	
LOCUS	T62174	
DEFINITION	yb96c02.r1 Stratagene lung (#37210) Homo sapiens cDNA clone IMAGE179010 5' similar to contains Alu repetitive element;; mRNA sequence.	
ACCESSION	T62174	
VERSION	T62174.1	
KEYWORDS	GI:665417	
SOURCE	EST.	
ORGANISM	human.	
REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	
AUTHORS	1 (bases 1 to 87)	
TITLE	Hillier,L., Lennon,G., Becker,M., Donald,M.F., Chiapelli,B., Chissole,S., Dietrich,N., Dubuque,T., Favellio,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mards,E., Moore,B., Morris,M., Parsons,J., Prange,C., Riffin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevisan,S., Underwood,K., Wollmann,P., Waterston,R., Wilson,R. and Marra,M.	
REFERENCE	EST 14-FEB-1995	
AUTHORS	87 bp mRNA linear EST 14-FEB-1995	
LOCUS	T62174	
DEFINITION	yb96c02.r1 Stratagene lung (#37210) Homo sapiens cDNA clone IMAGE179010 5' similar to contains Alu repetitive element;; mRNA sequence.	
ACCESSION	T62174	
VERSION	T62174.1	
KEYWORDS	GI:665417	
SOURCE	EST.	
ORGANISM	human.	
REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi; Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.	
AUTHORS	1 (bases 1 to 87)	
TITLE	Hillier,L., Lennon,G., Becker,M., Donald,M.F., Chiapelli,B., Chissole,S., Dietrich,N., Dubuque,T., Favellio,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mards,E., Moore,B., Morris,M., Parsons,J., Prange,C., Riffin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevisan,S., Underwood,K., Wollmann,P., Waterston,R., Wilson,R. and Marra,M.	
REFERENCE	EST 14-FEB-1995	
AUTHORS	87 bp mRNA linear EST 14-FEB-1995	
LOCUS	T62174	
DEFINITION	yb96c02.r1 Stratagene lung (#37210) Homo sapiens cDNA clone IMAGE179010 5' similar to contains Alu repetitive element;; mRNA sequence.	

TITLE	Generation and analysis of 280,000 human expressed sequence tags									
JOURNAL	Genome Res. 6 (9), 807-828 (1996)									
MEDLINE	97044478									
COMMENT	Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu Insert Size: 447 High quality sequence stops: 55 Source: IMAGE Consortium, LNL. This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information. Insert Length: 447 Std Error: 0.00 Seq primer: M13RP1 High quality sequence stop: 55. Location/Qualifiers 1..87 /organism="Homo sapiens" /db_xref="GDB:482627" /db_xref="taxon:9606" /clone="IMAGE:79010" /clone_lib="Stratagene Lung (#937210)" /sex="male" /dev_stage="72 years" /lab_host="SOIR cells (kanamycin resistant)" /note="Organ: Lung; Vector: pBluescript SK-; Site_1: EcoRI ; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dT, normal lung. Average insert size: 1.0 kb; Uni-ZAP XR Vector: -5' adaptor sequence: 5' GAATTCGGCAGAG 3' ~3' adaptor sequence: 5' CTGACGTTTTTTTTTTTTTTT 3' "									
FEATURES	source									
Query Match	1.0%; Score 65.6; DB 14; Length 87;									
Best Local Similarity	88.8%; Pred. No. 0.68;									
Matches	71; Conservative 0; Mismatches 9; Indels 0; Gaps 0;									
QY	5193 TTGCCAGCAGCGTCTGAACCTCGGCCCTCAAGTATTCCTCGCCAGCCCAAA 5252   Db 81 TTGCCAGCGCTGCTCGACCCCTCGCCTCAAGTGATCTCCACAGCCTCCCAAA 22 QY 5253 GTGCTGGATTACAGTGTG 5272   Db 21 GTGCTGGATTACAGTGTG 2									
RESULT 15	AA608742									
LOCUS	AA608742 90 bp mRNA linear EST 09-MAR-1998									
DEFINITION	aes6g04.s1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:950934 3' similar to contains Alu repetitive element;; mRNA sequence.									
ACCESSION	AA608742									
VERSION	AA608742.1 GI:2457170									
KEYWORDS	EST.									
SOURCE	human.									
ORGANISM	Homo sapiens									
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 90) Hillier,L., Allen,M., Bowles,L., Dubuque,T., Gelsel,G., Jost,S., Kizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin, J., Moore,B., Schellenberg,K., Stepec,M., Tan,F., Theisling,B., White,Y., Wyllie,T., Waterston,R. and Wilson,R. WashU-NCI human EST Project Unpublished (1997) Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu									
JOURNAL	Contact: Wilson RK									
COMMENT	Unpublished (1997)									

This clone is available royalty-free through LNL; contact the  
 IMAGE Consortium (info@image.lnl.gov) for further information.  
 Insert length: 240 Std Error: 0.00  
 Seq primer: -40m13 fwd: ET from Amersham.

## FEATURES

## source

1. .90

Location/Qualifiers

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:950934"

/tissue\_lib="Stratagene lung carcinoma 937218"

/tissue\_type="lung carcinoma"

/cell\_line="NCI-H69"

/dev\_stage="cell line NCI-H69"

/lab\_host="SOLR (kanamycin resistant)"

; Site\_2: xhoI; Cloned unidirectionally. Primer: Oligo

dT. Small cell carcinoma cell line NCI-H69. Average

insert size: 1.0 kb; Uni-ZAP XR Vector; ~5' adaptor

sequence: 5' GAATTCGGCAGAG 3' ~3' adaptor sequence: 5'

CTCGAGTTTCTTTTCTTTT 3' "

BASE COUNT 19 a 25 c 20 g 26 t

## ORIGIN

## Query Match

1.0%; Score 65; DB 9; Length 90;

Best Local Similarity 83.1%; Pred. No. 0.85;

Matches 74; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 4083 ATTTTGGTAGAGAGGTTTGGCGTGGCGGGCTGCTCGAAGTTTGACCTC 4142

Db 2 ATTTTGTAGAGACGAGATTTCACCGTGTACCGAGCTGGTGTGAACCTGACCTC 61

OY 4143 GGGTGATCCACCACCTCAGCCTCCCAA 4171

Db 62 AGTGATCTGCTGCTGCGCTCCCAA 90

Search completed: January 4, 2003, 17:56:55  
 Job time : 5563 secs



GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:06:00 ; Search time 137 Seconds  
(without alignments)  
14935.362 Million cell updates/sec

Title: US-10-006-366-3

Sequence: 1 ccccccaactgctgactgtf.....ttacttgggttacttgg 6672

Scoring table: IDENTITY-NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 686582

Minimum DB seq length: 0  
Maximum DB seq length: 99

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA: \*  
1: /cgn2\_6/plodata/1/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/plodata/1/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/plodata/1/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/plodata/1/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/plodata/1/ina/PCrUS\_COMB.seq: \*  
6: /cgn2\_6/plodata/1/ina/Backfile1.seq: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	67	1.0	75	4	US-09-357-740-15
2	65.4	1.0	75	4	US-09-357-740-14
3	59.6	0.9	75	4	US-09-461-697-130
4	56.6	0.8	84	2	US-08-454-557C-91
5	56.6	0.8	84	2	US-08-340-426D-91
6	56.6	0.8	84	2	US-08-450-673C-91
7	56.6	0.8	84	5	PCr-US95-17111A-91
8	56	0.8	88	2	US-08-988-128-1
9	56	0.8	88	2	US-08-988-128-2
10	54.8	0.8	75	3	US-09-056-762-7
11	54.8	0.8	75	4	US-09-461-697-151
12	52	0.8	60	2	US-08-454-557C-60
13	52	0.8	60	2	US-08-340-426D-60
14	52	0.8	60	2	US-08-450-673C-60
15	52	0.8	60	5	PCr-US95-17111A-60
16	49.6	0.7	94	3	US-08-750-064-6
17	49.6	0.7	83	2	US-08-481-658B-66
18	45.2	0.7	83	2	US-08-477-504A-66
19	45.2	0.7	83	2	US-08-486-756A-66
20	45.2	0.7	83	2	US-08-485-862B-66
21	45.2	0.7	83	3	US-08-787-739-66
22	45.2	0.7	83	3	US-08-487-077A-66
23	45.2	0.7	83	3	US-08-485-863A-66
24	45.2	0.7	83	4	US-08-485-049D-66
25	45.2	0.7	83	4	US-09-178-115-66
26	45.2	0.7	83	4	US-09-177-776-66
27	42.4	0.6	60	2	US-08-454-557C-59

28	42.4	0.6	60	2	US-08-340-426D-59	Sequence 59, Appl
29	42.4	0.6	60	2	US-08-450-673C-59	Sequence 59, Appl
30	42.4	0.6	60	3	US-08-545-860D-71	Sequence 71, Appl
31	42.4	0.6	60	5	PCr-US94-04496-71	Sequence 71, Appl
32	42.4	0.6	60	5	PCr-US95-17111A-59	Sequence 59, Appl
33	42.4	0.6	73	3	US-09-056-762-8	Sequence 8, Appl
34	40.8	0.6	85	2	US-08-454-557C-92	Sequence 92, Appl
35	40.8	0.6	85	2	US-08-340-426D-92	Sequence 92, Appl
36	40.8	0.6	85	2	US-08-450-673C-92	Sequence 92, Appl
37	40.8	0.6	85	5	PCr-US95-17111A-92	Sequence 92, Appl
38	40	0.6	57	2	US-08-332-766A-3	Sequence 3, Appl
39	38.6	0.6	78	2	US-08-454-557C-70	Sequence 70, Appl
40	38.6	0.6	78	2	US-08-340-426D-70	Sequence 70, Appl
41	38.6	0.6	78	2	US-08-450-673C-70	Sequence 70, Appl
42	38.6	0.6	78	5	PCr-US95-17111A-70	Sequence 70, Appl
43	38.2	0.6	43	2	US-08-988-128-7	Sequence 7, Appl
44	38.2	0.6	43	2	US-08-988-128-8	Sequence 8, Appl
45	37.6	0.6	47	4	US-09-641-638-660	Sequence 660, App

## ALIGNMENTS

```
RESULT 1
US-09-357-740-15
; Sequence 15, Application US/09357740
; Patent No. 6348596
; GENERAL INFORMATION:
; APPLICANT: Lee, Linda G.
; APPLICANT: Graham, Ronald J.
; APPLICANT: Mullah, Khalruzzaman B.
; APPLICANT: Haxo, Francis T.
; TITLE OF INVENTION: ASYMMETRIC CYANINE DYE QUENCHERS
; FILE REFERENCE: 9584-007
; CURRENT APPLICATION NUMBER: US/09/357,740
; CURRENT FILING DATE: 1999-07-20
; EARLIER APPLICATION NUMBER: 09/012,525
; EARLIER FILING DATE: 1998-01-23
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 75
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Oligonucleotide
US-09-357-740-15

Query Match 1.0%; Score 67; DB 4; Length 75;
Best Local Similarity 93.3%; Pred. No. 1.1e-06;
Matches 70; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5133 TTGCCAGCAGGCTTCACTGAGCTGAGTTCCTGCTGACCTGCCAA 5252
DB 1 TTGGCAGCAGGCTGCTTCACTGAGCTGAGTTCCTGAGTTCACCTGCCAA 60

QY 5253 GTGCTGGATTACAG 5267
DB 61 GTGCTGGATTACAG 75

RESULT 2
US-09-357-740-14
; Sequence 14, Application US/09357740
; Patent No. 6348596
; GENERAL INFORMATION:
; APPLICANT: Lee, Linda G.
; APPLICANT: Graham, Ronald J.
; APPLICANT: Mullah, Khalruzzaman B.
; APPLICANT: Haxo, Francis T.
; TITLE OF INVENTION: ASYMMETRIC CYANINE DYE QUENCHERS
; FILE REFERENCE: 9584-007
```

```

; CURRENT APPLICATION NUMBER: US/09/357,740
; CURRENT FILING DATE: 1999-07-20
; EARLIER APPLICATION NUMBER: 09/012,525
; EARLIER FILING DATE: 1998-01-23
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 75
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; US-09-357-740-14

```

```

Query Match
Best Local Similarity 1.0%; Score 65.4; DB 4; Length 75;
Matches 69; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

```

QY 5193 TTGCCAGGAGCTTGTGACTCCGCGCTCAGTATTCCTGCGGAGCCCTCCCAA
DB 1 TTGCCAGGAGCTTGTGACTCCGCGCTCAGTATTCCTGCGGAGCCCTCCCAA 60
QY 5253 GTCTGGGATTACAG 5267
DB 61 GTCTGGGATTACAG 75

```

```

RESULT 3
US-09-461-697-130/c
; Sequence 130, Application US/09461697
; Patent No. 6277974
; GENERAL INFORMATION:
; APPLICANT: COGENT NEUROSCIENCE, Inc.
; APPLICANT: Lo, Donald C.
; APPLICANT: Barney Shamp
; APPLICANT: Thomas, Mary Beth
; APPLICANT: Portbury, Stuart D.
; APPLICANT: Putnam, Kasuri
; APPLICANT: Katz, Lawrence C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING
; TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING
; TITLE OF INVENTION: CELL DEATH
; FILE REFERENCE: 10001-005-999
; CURRENT APPLICATION NUMBER: US/09/461,697
; CURRENT FILING DATE: 1999-12-14
; NUMBER OF SEQ ID NOS: 466
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 75
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-461-697-130

```

```

Query Match
Best Local Similarity 0.9%; Score 59.6; DB 4; Length 75;
Matches 65; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY 4117 CGGGCTGGTCTGCACTTTGATCGACCCACCCACCCCAAGTGGT 4176
DB 74 CAGGCTGGTCTGCACTTTGATCGACCCACCCACCCCAAGTGGT 15
QY 4177 GGGATTACAGCGT 4190
DB 14 GGGATTACAGCGT 1

```

```

RESULT 4
US-08-454-557C-91
; Sequence 91, Application US/08454557C
; Patent No. 5830670
; GENERAL INFORMATION:
; APPLICANT: de la Monte, Suzanne

```

```

; APPLICANT: Wands, Jack R.
; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
; TITLE OF INVENTION: of Alzheimer's Disease
; NUMBER OF SEQUENCES: 121
; CORRESPONDENCE ADDRESS:
; ADDRESS: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/454,557C
; FILING DATE: 30-MAY-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Ludwig, Steven R.
; REGISTRATION NUMBER: 36,203
; REFERENCE/DOCKET NUMBER: 0609.3840003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2540
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 91:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 84 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; US-08-454-557C-91

```

```

Query Match
Best Local Similarity 0.8%; Score 56.6; DB 2; Length 84;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;
QY 4107 CCGTGTGGCGGCTGCTGCACTTTGACCTGCGGTGATCCACCCAGCCTC 4166
DB 1 CCATGTTTCATCAGCTGGGTCGACCTCTGACCTC--GTGATCGCGCGCTCAGCCTC 58
QY 4167 CCAAGTGTGGGATTACAGCGTG 4191
DB 59 CCAAGTGTGGGATTACAGCGTG 83

```

```

RESULT 5
US-08-340-426D-91
; Sequence 91 Application US/08340426D
; Patent No. 5948634
; GENERAL INFORMATION:
; APPLICANT: de la Monte, Suzanne
; APPLICANT: Wands, Jack R.
; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
; TITLE OF INVENTION: of Alzheimer's Disease
; NUMBER OF SEQUENCES: 121
; CORRESPONDENCE ADDRESS:
; ADDRESS: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,426D
; FILING DATE: 14-NOV-1994

```

```

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION/DOCKET NUMBER: 36,203
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 84 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
US-08-340-426D-91

Query Match
0.8%; Score 56.6; DB 2; Length 84;
Best Local Similarity 87.1%; Pred. No. 0.00031;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;

QY 4107 CCGTGTGGCGGCGGCTGTCGAACTCTTGACCTCGGTGATCCACCACTCAGCCTC 4166
DB 1 CCATGTCATCAGGCTGTGTCGAATCTTGACCTC--GTGATCCGCCCGCTCAGCCTC 58
QY 4167 CCAAGTCTGTGGATTACACGCTG 4191
DB 59 CCAAGTCTGTGGATTACACGCTG 83

RESULT 6
US-08-450-673C-91
Sequence 91, Application US/08450673C
Patent No. 5948888
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION/DOCKET NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840004
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 84 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
US-08-450-673C-91

Query Match
0.8%; Score 56.6; DB 2; Length 84;
Best Local Similarity 87.1%; Pred. No. 0.00031;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;


```

```

QY 4107 CCGTGTGGCGGCGGCTGTCGAACTCTTGACCTCGGTGATCCACCACTCAGCCTC 4166
DB 1 CCATGTCATCAGGCTGTGTCGAATCTTGACCTC--GTGATCCGCCCGCTCAGCCTC 58
QY 4167 CCAAGTCTGTGGATTACACGCTG 4191
DB 59 CCAAGTCTGTGGATTACACGCTG 83

RESULT 7
PCT-US95-17111A-91
Sequence 91, Application PC/TUS9517111A
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION/DOCKET NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840002
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 84 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
PCT-US95-17111A-91

Query Match
0.8%; Score 56.6; DB 5; Length 84;
Best Local Similarity 87.1%; Pred. No. 0.00031;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;

QY 4107 CCGTGTGGCGGCGGCTGTCGAACTCTTGACCTCGGTGATCCACCACTCAGCCTC 4166
DB 1 CCATGTCATCAGGCTGTGTCGAATCTTGACCTC--GTGATCCGCCCGCTCAGCCTC 58
QY 4167 CCAAGTCTGTGGATTACACGCTG 4191
DB 59 CCAAGTCTGTGGATTACACGCTG 83

RESULT 8
US-08-988-128-1
Sequence 1, Application US/08988128
Patent No. 5994505
GENERAL INFORMATION:
APPLICANT: Ting, Jenny Pan-Yung
APPLICANT: Chin, Keh-Chin

```

Query Match	0.8%	Score 56;	DB 2;	length 88;
Best Local Similarity	92.2%	Pred. No.	0.00043;	
Matches	59;	Conservative	0;	Mismatches 5; Indels 0; Caps 0;
QY	127	GATTCCTACACATGGCGTGGCTGGCTCAGGCCCTGCTGGGCTCTTACCTGTAGAGCC	186	
Db	25	GATGACGATTAATAGGCTTGCTGGCTCAGGCCCTGCTGGGCTCTTACCTGTAGAGCC	84	
QY	187	CAGG	190	
Db	85	CAGG	88	

```

? APPLICANT: Swensen, Jeff
? TITLE OF INVENTION: A 14 KILOBASE DELETION IN THE PROMOTER REGION OF BRCA1
? TITLE OF INVENTION: IN A BREAST CANCER FAMILY
? FILE REFERENCE: 2318-197
? CURRENT APPLICATION NUMBER: US/09/056,762
? CURRENT FILING DATE: 1998-04-08
? EARLIER APPLICATION NUMBER: 60/043,116
? EARLIER FILING DATE: 1997-04-05
? NUMBER OF SEQ ID NOS: 11
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 7
? LENGTH: 75
? TYPE: DNA
? ORGANISM: Homo sapiens
US-09-056-762-7

```

Query Match	Best Local Match	Similarity	Score	54.8	DB 3	Length	75
Matches	62	Conservative	0	Mismatches	12	Indels	0
QY	3950	CCGAGCGTCGCGTCAGCGTGTGCATCTGCGGTTCTACTGCACACCTCCGCTCTGGGGTTCA	4009				
Db	75	CTCAGCGTGTGAGTCAGTCAGTGTGTGGCTGTGGCTACTGCACACCTCTCCCTCGGATGGA	16				
QY	4010	AGCGATTCCTTCTGC	4023				
Db	15	AGGATTCCTTGTGC	2				

RESULT 11  
US-09-461-697-151/C  
Sequence 151, Application US/090461697  
Patent No. 627,7574  
GENERAL INFORMATION:  
APPLICANT: COGENT NEUROSCIENCE, Inc.  
APPLICANT: Lo, Donald C.  
APPLICANT: Barney, Shawn  
APPLICANT: Thomas, Mary Beth





GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 16:24:06 ; Search time 182 Seconds  
(without alignments)  
15855.326 Million cell updates/sec

Title: US-10-006-366-3

Perfect score: 6672

Sequence: 1 ccccccaactggtgactgtgtt.....tactttgttccacttgt 6672

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 381593 seqs, 216252194 residues

Total number of hits satisfying chosen parameters: 227076

Minimum DB seq length: 0

Maximum DB seq length: 99

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published\_Applications\_NA:\*  
1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*  
2: /cgn2\_6/ptodata/1/pubpna/PCP\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*  
5: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*  
6: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*  
7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*  
8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*  
9: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*  
10: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq:\*  
11: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*  
12: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*  
13: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*  
14: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	80.4	1.2	98	10	US-09-764-860-818
2	80.4	1.2	98	10	US-09-764-860-819
3	75.8	1.1	95	9	US-09-764-868-1444
4	75.6	1.1	98	10	US-09-764-847-1866
5	75.6	1.1	98	10	US-09-761-288-47
6	73.6	1.1	96	10	US-09-764-860-608
7	72	1.1	96	10	US-09-764-860-608
8	70.6	1.1	98	10	US-09-764-860-608
9	69.8	1.0	98	10	US-09-764-860-608
10	69.4	1.0	99	10	US-09-764-877-3656
11	68.2	1.0	90	9	US-09-764-904-79
12	68.2	1.0	90	9	US-09-764-904-80
13	68.2	1.0	90	9	US-09-764-904-81
14	68.2	1.0	90	10	US-09-764-860-607
15	68.2	1.0	90	10	US-09-764-860-608
16	68.2	1.0	90	10	US-09-764-860-609
17	67.6	1.0	98	10	US-09-764-869-1767
18	67.2	1.0	88	10	US-09-764-869-1992
19	67.2	1.0	88	10	US-09-764-869-1993

20	65.6	1.0	88	10	US-09-764-869-1719	Sequence 1719, Ap
21	65.4	1.0	84	10	US-09-764-869-1281	Sequence 1281, Ap
22	65.2	1.0	86	10	US-09-764-860-642	Sequence 642, Ap
23	65.2	1.0	86	10	US-09-764-860-643	Sequence 643, Ap
24	64.8	1.0	84	10	US-09-764-860-1052	Sequence 1052, Ap
25	64.8	1.0	84	10	US-09-764-860-1053	Sequence 1053, Ap
26	64.6	1.0	96	10	US-09-764-887-554	Sequence 554, Ap
27	64.6	1.0	99	10	US-09-764-860-836	Sequence 836, Ap
28	64	1.0	92	10	US-09-764-877-3857	Sequence 3857, Ap
29	63.2	0.9	89	10	US-09-764-855-329	Sequence 329, Ap
30	62.8	0.9	94	10	US-09-761-288-41	Sequence 41, Ap
31	62.8	0.9	94	10	US-09-761-288-48	Sequence 48, Ap
32	62.8	0.9	97	10	US-09-764-887-559	Sequence 559, Ap
33	62.8	0.9	98	10	US-09-764-887-2198	Sequence 2198, Ap
34	61.8	0.9	87	10	US-09-764-860-862	Sequence 862, Ap
35	61.6	0.9	85	10	US-09-764-847-1154	Sequence 1154, Ap
36	61.6	0.9	87	10	US-09-764-847-1896	Sequence 1896, Ap
37	61.6	0.9	88	10	US-09-764-877-3190	Sequence 3190, Ap
38	61.4	0.9	92	10	US-09-761-288-33	Sequence 33, Ap
39	60.6	0.9	84	10	US-09-764-869-2102	Sequence 2102, Ap
40	60.6	0.9	84	10	US-09-764-869-2105	Sequence 2105, Ap
41	60.2	0.9	87	10	US-09-764-877-3775	Sequence 3775, Ap
42	60	0.9	88	10	US-09-764-869-1665	Sequence 1665, Ap
43	60	0.9	88	10	US-09-764-869-1666	Sequence 1666, Ap
44	60	0.9	88	10	US-09-764-877-2593	Sequence 2593, Ap
45	60	0.9	91	10	US-09-764-878-204	Sequence 204, Ap

#### ALIGNMENTS

RESULT 1  
US-09-764-860-818  
Sequence 818, Application US/09764860  
Patent No. US20020094953A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC008  
CURRENT APPLICATION NUMBER: US/09/764, 860  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - consult PALM or file wrapper  
NUMBER OF SEQ ID NOS: 1198  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 818  
LENGTH: 98  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-764-860-818

Query Match 1.2%: Score 80.4; DB 10; Length 98;  
Best Local Similarity 88.8%; Pred. No. 9.1e-06;  
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4090 GTAGAGACAGGGTTTCCCGTGTGGCCGGCTGCTCGAAGCTTGTGACCTGGGTGAT 4149  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 1 GTAGAGAGGGGTTTCCACCATGTTGGCCAGCGTGAATCGAAGCTTGTGACCTGAGTGTAT 60

QY 4150 CCACCCAGCTGAGCTCCCAAGTGTGGATTCAG 4187  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 61 CCACCTGCTCAGCTCCCAAGTGTGGATTCAG 98

RESULT 2  
US-09-764-860-819  
Sequence 819, Application US/09764860  
Patent No. US20020094953A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PC008  
CURRENT APPLICATION NUMBER: US/09/764, 860  
CURRENT FILING DATE: 2001-01-17

05-03-60-50

; PRIOR APPLICATION NUMBER: 60/178,191



PRIOR FILING DATE: 2000-02-04

US 09/736,699A  
; Sequence 5, Application US/09736969A  
; Patent No. US20020068302A1

RESULT 9  
US-09-736-969A-5  
; Sequence 5, Application US/09736969  
; Patent No. US20020068302A1  
; GENERAL INFORMATION:

```
; APPLICANT: Lu, Peter
; APPLICANT: Garman, Jonathan David
; APPLICANT: Candia III, Albert Frederick
; APPLICANT: Arbor Vita Corporation
; TITLE OF INVENTION: CLASP-4 Transmembrane Protein
; FILE REFERENCE: 020054-000411US
; CURRENT APPLICATION NUMBER: US/09/736,969A
; CURRENT FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: US 60/160,860
; PRIOR FILING DATE: 1999-10-21
; PRIOR APPLICATION NUMBER: US 60/162,498
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/170,453
; PRIOR FILING DATE: 1999-12-13
; PRIOR APPLICATION NUMBER: US 60/176,195
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 60/182,296
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: US 09/547,276
; PRIOR FILING DATE: 2000-04-11
; PRIOR APPLICATION NUMBER: US 60/196,267
; PRIOR FILING DATE: 2000-04-11
; PRIOR APPLICATION NUMBER: US 60/196,460
; PRIOR FILING DATE: 2000-04-11
; PRIOR APPLICATION NUMBER: US 60/196,527
; PRIOR FILING DATE: 2000-04-11
; PRIOR APPLICATION NUMBER: US 60/196,528
; PRIOR FILING DATE: 2000-04-11
; PRIOR APPLICATION NUMBER: US 09/687,837
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: US 60/240,503
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: US 60/240,508
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: US 60/240,539
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: US 60/240,543
; PRIOR FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION: Isoform 1 insertion
US-09-736-969A-5

Query Match
Best Local Similarity 1.0%; Score 69.8; DB 10; Length 98;
Matches 80; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 3957 TGGCGTCAGTGTGTCATGTCACGACCCGCTTGGGTTCAAGGATT 4016
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 TGGAGTGCAGTAGAGCGCATCTCGGCTGCTACACCTCTCCCGGTTCAAGTATT 61
QY 4017 CTCTGCTTCAAGCTCCCGGATGACTGGAGCTACAGG 4053
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 62 CTCTGCTCAGCCTCTCTGAGTAGCTGGAGTATGTAG 98

RESULT 10
US-09-764-877-3656/c
; Sequence 3656, Application US/0974877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3656
; LENGTH: 99
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3656

Query Match
Best Local Similarity 1.0%; Score 69.4; DB 10; Length 99;
Matches 76; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3945 TGTGCCCCAGGCTGGCTGAGAGTGTCATCTGGTTACATGCAACCTCCGCTTGG 4004
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 87 TGTACCCAGCTGGAGTGCATGTCGATCTCGGCTATTCGCAACCTCCGCTCCGG 28
QY 4005 GTTCACAGCATCTCTGCTTACAGCT 4031
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 27 GTTCACAGCATCTCTCGCTCAGCCT 1

RESULT 11
US-09-764-904-79/c
; Sequence 79, Application US/09764904
; Patent No. US20020173454A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA122
; CURRENT APPLICATION NUMBER: US/09/764,904
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-904-79

Query Match
Best Local Similarity 1.0%; Score 68.2; DB 9; Length 90;
Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGCGTTTGGCGGCTGTGGCGGCTGTGCAACTTACTTC 4142
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 89 ATTTTGTAGAGACAGCGTTTCCACATGTTGGCCAGGCTGTGCAACTTACTTC 30
QY 4143 GGGTATCCACCCAGCTCAGCTCCCAA 4171
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 29 AAGTATCTGCTCGCTCGCTCCCAA 1

RESULT 12
US-09-764-904-80/c
; Sequence 80, Application US/09764904
; Patent No. US20020173454A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA122
; CURRENT APPLICATION NUMBER: US/09/764,904
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 80
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-904-80

Query Match
Best Local Similarity 1.0%; Score 68.2; DB 9; Length 90;
Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 4142

Db 89 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTGACCTCCCAAA 4171

Db 29 AAGTATCTGCTGCTGCTGCTGCTCCCAAA 1

#### RESULT 13

US-09-764-904-81/c

; Sequence 81, Application US/09764904

; Patent No. US20020173454A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PA122

; CURRENT APPLICATION NUMBER: US/09/764,904

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 137

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 81

; LENGTH: 90

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-904-81

Query Match 1.0%; Score 68.2; DB 9; Length 90;

Best Local Similarity 85.4%; Pred. No. 0.0012;

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 4142

Db 89 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTGACCTCCCAAA 4171

Db 29 AAGTATCTGCTGCTGCTGCTGCTCCCAAA 1

#### RESULT 14

US-09-764-860-607/c

; Sequence 607, Application US/09764860

; Patent No. US20020094953A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PC008

; CURRENT APPLICATION NUMBER: US/09/764,860

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1198

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 607

; LENGTH: 90

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-860-607

Query Match 1.0%; Score 68.2; DB 10; Length 90;

Best Local Similarity 85.4%; Pred. No. 0.0012; Mismatches 13; Indels 0; Gaps 0;

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 4142

Db 89 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTGACCTCCCAAA 4171

Db 29 AAGTATCTGCTGCTGCTGCTGCTCCCAAA 1

#### RESULT 15

US-09-764-860-608/c

; Sequence 608, Application US/09764860

; Patent No. US20020094953A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PC008

; CURRENT APPLICATION NUMBER: US/09/764,860

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1198

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 608

; LENGTH: 90

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-860-608

Query Match 1.0%; Score 68.2; DB 10; Length 90;

Best Local Similarity 85.4%; Pred. No. 0.0012; Mismatches 13; Indels 0; Gaps 0;

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 4142

Db 89 ATTTTGTAGAGACAGGGTTTGGCCGGCTGTGCTGCAACTCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTGACCTCCCAAA 4171

Db 29 AAGTATCTGCTGCTGCTGCTGCTCCCAAA 1

Search completed: January 4, 2003, 20:35:39  
Job time : 192 secs



GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OK nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:04:31 : Search time 11004 Seconds

(without alignments)  
17645.758 Million cell updates/sec

Title: US-10-006-366-3

Perfect score: 6672  
Sequence: 1 cctccacacggtgactgtt.....tactttgttaccctgt 6672

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 992750

Minimum DB seq length: 0  
Maximum DB seq length: 99

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl: \*  
1: gb\_da: \*  
2: gb\_hg: \*  
3: gb\_in: \*  
4: gb\_com: \*  
5: gb\_ov: \*  
6: gb\_pal: \*  
7: gb\_ph: \*  
8: gb\_pl: \*  
9: gb\_pr: \*  
10: gb\_ro: \*  
11: gb\_sy: \*  
12: gb\_un: \*  
13: gb\_vl: \*  
14: gb\_vl: \*  
15: em\_ba: \*  
16: em\_fun: \*  
17: em\_hum: \*  
18: em\_in: \*  
19: em\_mu: \*  
20: em\_om: \*  
21: em\_or: \*  
22: em\_ov: \*  
23: em\_pat: \*  
24: em\_ph: \*  
25: em\_pl: \*  
26: em\_ro: \*  
27: em\_sts: \*  
28: em\_un: \*  
29: em\_vl: \*  
30: em\_hg\_hum: \*  
31: em\_hg\_inv: \*  
32: em\_hg\_other: \*  
33: em\_hg\_mus: \*  
34: em\_hg\_pin: \*  
35: em\_hg\_rod: \*  
36: em\_hg\_mam: \*  
37: em\_hg\_vit: \*  
38: em\_sy: \*  
39: em\_hg\_hum: \*  
40: em\_hg\_mus: \*  
41: em\_hg\_other: \*

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	73.6	1.1	96	6	AX197482	AX197482 Sequence
2	69.8	1.0	98	6	AX173026	AX173026 Sequence
3	67.4	1.0	97	9	HUMDLRA1	M14178 Human low d
4	67.4	1.0	97	9	HUMDLRA2	M14180 Human low d
5	67	1.0	75	6	AR194771	AR194771 Sequence
6	66	1.0	90	9	HUMDLRDU	M14179 Human family
7	65.6	1.0	97	9	HUMDLRDM	M15365 Human low d
8	65.4	1.0	75	6	AR194770	AR194770 Sequence
9	64	1.0	90	9	HUMDLRFL	K03555 Human low d
10	63	0.9	91	11	HUMUTR164A	L30244 Human STS U
11	62.8	0.9	94	6	AX197476	AX197476 Sequence
12	62.8	0.9	94	6	AX197483	AX197483 Sequence
13	62.6	0.9	94	9	HUMHGAL	M13479 Human alpha
14	62.4	0.9	80	9	HUMBRKFAE	M36135 Human alpha
15	61.6	0.9	79	9	S73203	S73203 AL1-1 (tand
16	61.4	0.9	92	6	AX197468	AX197468 Sequence
17	61.4	0.9	95	9	HSSHPKIB	X63631 H. sapiens m
18	60.4	0.9	81	6	AX322271	AX322271 Sequence
19	60.2	0.9	98	11	G33095	G33095 EYRPI3C9R H
20	60	0.9	76	9	AF032275	AF032275 Eulemur m
21	60	0.9	76	9	AF032278	AF032278 Lemur sp.
22	60	0.9	91	11	HUMUTR164A	L30244 Human STS U
23	59.8	0.9	92	6	AX197472	AX197472 Sequence
24	59.6	0.9	75	9	AF032334	AF032334 Propithec
25	58.8	0.9	90	9	HUMDLRPM	K03556 Human low d
26	58.6	0.9	99	11	HUMUTR7692A	L30306 Human STS U
27	58	0.9	94	6	AX197487	AX197487 Sequence
28	57.8	0.9	95	11	HUMUTR8002B	L30176 Human STS U
29	56.8	0.9	76	9	AF032234	AF032234 Orolaimur
30	56.8	0.9	76	9	AF032287	AF032287 Eulemur m
31	56.8	0.9	76	9	AF032287	AF032287 Eulemur m
32	56.8	0.9	76	9	AF032288	AF032288 Lemur sp.
33	56.6	0.8	84	6	AR051521	AR051521 Sequence
34	56.6	0.8	84	6	AR072661	AR072661 Sequence
35	56.6	0.8	84	6	AR072661	AR072661 Sequence
36	56.6	0.8	84	6	AR072661	AR072661 Sequence
37	56.4	0.8	84	6	AX322350	AX322350 Sequence
38	56.4	0.8	95	5	GGRE10H7	X78616 G.gallus ge
39	56	0.8	88	6	AR091691	AR091691 Sequence
40	55.8	0.8	88	6	AR091692	AR091692 Sequence
41	55.8	0.8	75	9	AF032305	AF032305 Propithec
42	55.8	0.8	75	9	AF032320	AF032320 Propithec
43	55.8	0.8	75	9	AF032338	AF032338 Propithec
44	55.4	0.8	82	9	AF032276	AF032276 Lemur sp.
45	55.2	0.8	76	9	HUMALUANDC	L36843 Homo sapien
					AF032260	Lemur sp.

#### ALIGNMENTS

RESULT 1  
AX197482/c  
LOCUS AX197482 96 bp DNA linear PAT 29-AUG-2001  
DEFINITION Sequence 47 from Patent WO0151632.  
ACCESSION AX197482  
VERSION AX197482.1 GI:15387845  
KEYWORDS  
SOURCE  
ORGANISM human.  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 96)  
Padigaru, M., Prayaga, S.K., Taupier, R.J., Mishra, V., Tchernev, V.T.,  
Spytek, K.A. and Li, L.  
Odorant receptor polypeptides and nucleic acids encoding same

Pred. No. is the number of results predicted by chance to have a

JOURNAL	Patent: WO 0151632-A 47 19-JUL-2001;				
FEATURES	Curagen Corporation (US)				
source	Location/Qualifiers				
	1. 96				
	/organism="Homo sapiens"				
	/db_xref="taxon:9606"				
BASE COUNT	19 a	26 c	34 g	17 t	
ORIGIN					
Query Match	1.1%;	Score 73.6;	DB 6;	Length 96;	
Best Local Similarity	85.4%;	Pred. No. 9.1e-06;			
Matches	82; Conservative	0;	Mismatches 14;	Indels	0;
Qy	5192	GTGGCCAGCAGCAGCTCTGTAACTCCTGGCCCTCAAGATGATTCCTGCTCCACAGCTCCCAA	5251		
Db	96	GTGACACAGGCTGTCTCGAATCTCTGACTTATGTGATTCGCGCCGCTCGGCTCCCAA	37		
Qy	5252	AGTGTGGGATTAACAGGTGTGAACCAACACACCCAG	5287		
Db	36	AGTGTGGGATTAACAGGTGTGAACCAACACCCAG	1		
RESULT 2					
LOCUS	AX173026	98 bp	DNA	linear	PAT 03-JUL-2001
DEFINITION	Sequence 5 from Patent WO0142294.				
ACCESSION	AX173026				
VERSION	AX173026.1	GI:1459797			
KEYWORDS					
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.				
TITLE	Lu, P., Garman, J.D. and Candia, A.F.				
JOURNAL	Clasp-4 transmembrane protein				
	Patent: WO 0142294-A 5 14-JUN-2001;				
FEATURES	Arbor Vita Corporation (US)				
source	Location/Qualifiers				
	1. 98				
	/organism="Homo sapiens"				
	/db_xref="taxon:9606"				
	/note="isoform 1 insertion"				
BASE COUNT	15 a	29 c	28 g	26 t	
ORIGIN					
Query Match	1.0%;	Score 69.8;	DB 6;	Length 98;	
Best Local Similarity	82.5%;	Pred. No. 6.5e-05;			
Matches	80; Conservative	0;	Mismatches 17;	Indels	0;
Qy	3957	TGGCGTCGACGTGGTCCGATTCGGGTTCACTCGCAACCTCCGGCTCTTGGGTTCAAGCGATT	4016		
Db	2	TGGAGTGCAGTGACCGCATCTCGGCTCCCTCAACACTCTCCCGGGTTCAAGTATT	61		
Qy	4017	CTTCTGCTTCAAGCTCCCGAGAGTGGGAGCTCAACAG	4053		
Db	62	CTTCTGCTTCAAGCTCCCGAGAGTGGGAGCTCAACAG	98		
RESULT 3					
HUMDLRAL1					
LOCUS	HUMDLRAL1	97 bp	DNA	linear	PRI 07-JAN-1995
DEFINITION	Human low density lipoprotein receptor gene, Intron 4 (partial).				
ACCESSION	M14178				
VERSION	M14178.1	GI:187097			
KEYWORDS	low density lipoprotein receptor-1.				
SEGMENT	1 of 2				
SOURCE	Human white blood cell DNA.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.				
	(bases 1 to 97)				
	Hobbs, H.H., Brown, M.S., Goldstein, J.L. and Russell, D.W.				

TITLE	Deletion of exon encoding cysteine-rich repeat of low density lipoprotein receptor alters its binding specificity in a subject with familial hypercholesterolemia									
JOURNAL	J. Biol. Chem. 261 (28), 13114-13120 (1986)									
MEDLINE	87008518									
PUBMED	3020025									
COMMENT	Analysis of the LDL-receptor gene of a patient with familial hypercholesterolemia (FH) revealed the deletion of exon 5 resulting from a homologous recombination between repetitive Alu sequences of intron 4 and intron 5.									
FEATURES	Location/Qualifiers									
source	1..97									
	/organism="Homo sapiens"									
	/db_xref="taxon:9606"									
	/map="19p13.3"									
intron	<1..>97									
	/gene="LDLR"									
	/note="LDL-receptor intron D; G00-119-362"									
	42..72									
misc-feature	/gene="LDLR"									
	/note="deletion target sequence"									
BASE COUNT	18 a 34 c 26 g 19 t									
ORIGIN	Chromosome 19.									
Query Match	1.0%; Score 67.4; DB 9; Length 97;									
Best Local Similarity	82.8%; Pred. No. 0.00022;									
Matches	77; Conservative 0; Mismatches 16; Indels 0; Gaps 0;									
OY	5196 CCCAGCAGGCTTTAAACCTCGGGCTCAAGATCTCTCTCCACGCTCCCAAGTG 5255									
Db	5 CACAGCGTGCTTTAACTCTGGCTCAGGAATCTCTCTCGCTTGCGCTCCAAAGT 64									
OY	5256 CTGGATTACAGGTGTGAACCAACCAACCCAGC 5288									
Db	65 CTGGATTCAAGCATGAGCCGCTGCACCCGCG 97									
RESULT 4										
LOCUS	HUMDLRA2 97 bp DNA linear PRI 07-JAN-1995									
DEFINITION	Human low density lipoprotein receptor gene (UDLR), intron 5 (partial).									
ACCESSION	M4180									
VERSION	M4180.1 GI:187098									
KEYWORDS	low density lipoprotein receptor-1.									
SEGMENT	2 of 2									
SOURCE	Human white blood cell DNA.									
ORGANISM	Homo sapiens									
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.									
REFERENCE	1 (bases 1 to 97)									
AUTHORS	Hobbs,H.H., Brown,M.S., Goldstein,J.L. and Russell,D.W.									
TITLE	Deletion of exon encoding cysteine-rich repeat of low density lipoprotein receptor alters its binding specificity in a subject with familial hypercholesterolemia									
JOURNAL	J. Biol. Chem. 261 (28), 13114-13120 (1986)									
MEDLINE	87008518									
PUBMED	3020025									
COMMENT	Analysis of the LDL-receptor gene of a patient with familial hypercholesterolemia (FH) revealed the deletion of exon 5 resulting from a homologous recombination between repetitive Alu sequences of intron 4 and intron 5.									
FEATURES	Location/Qualifiers									
source	1..97									
	/organism="Homo sapiens"									
	/db_xref="taxon:9606"									
	/map="19p13.3"									
gene	join(M4178..1:1..97,1..97)									
	/gene="LDLR"									
intron	<1..>97									
	/gene="LDLR"									
	/note="LDLR intron E; G00-119-362"									
misc-feature	42..72									

BASE COUNT	19 a	34 C	25 g	15 t
ORIGIN	Chromosome 19p13.2-p13.1.			
Query Match	1.0%;	Score 67.4;	DB 9;	Length 97;
Best Local Similarity	82.8%;	Pred. No. 0.00027;		
Matches	77;	Conservative	0;	Mismatches 16;
			Indels	0;
			Gaps	0;
Qy	5193	TTGGCCAGGACAGCTCTTGAACCTCTGAGCTTCAGAGTATCTCTGCTGACCTCCCAAA	5252	
Db	2	TTGGCCAGGACCTGTCTCGAAGCTCTGGGCTCAAGCACTGCTGCTTGAGCTCCCAAA	61	
Qy	5253	GTGCTGGATTACAGGTGTGAACCAACCAACCC	5285	
Db	62	GTGCTGGATTACAGGCACAAACCAACCGTCCC	94	
RESULT 5				
AR194771				
LOCUS	AR194771	75 bp	DNA	Linear
DEFINITION	Sequence	15 from patent US 6348596.		PAT 20-APR-2002
ACCESSION	AR194771			
VERSION	AR194771.1	GI:20241363		
KEYWORDS				
SOURCE	Unknown.			
ORGANISM	Unknown.			
REFERENCE	Unclassified.			
AUTHORS	1 (bases 1 to 75)			
TITLE	Lee, L.G., Graham, R.J., Mullah, K.B. and Haxo, F.T.			
JOURNAL	Non-fluorescent asymmetric cyanine dye compounds useful for			
FEATURES	quenching reporter dyes			
source	Patent: US 6348596-A 15 19-FEB-2002;			
	Location/Qualifiers			
	1..75			
BASE COUNT	15 a	24 c	18 g	18 t
ORIGIN	/organism="unknown"			
Query Match	1.0%;	Score 67;	DB 6;	Length 75;
Best Local Similarity	93.3%;	Pred. No. 0.00027;		
Matches	70;	Conservative	0;	Mismatches 5;
			Indels	0;
			Gaps	0;
Qy	5193	TTGGCCAGGACGAGCTTGACCTCCGGGCTCAAGTGATTTCTGCTGACCTCCCAAA	5252	
Db	1	TTGGCCAGGCTGTCTTGAACCTCGACCTCAAGTGATTCACCTGCTCCAGCTCCCAAA	60	
Qy	5253	GTGCTGGATTACAG	5267	
Db	61	GTGCTGGATTACAG	75	
RESULT 6				
HOMDLDRDJ				
LOCUS	HOMDLDRDJ	97 bp	DNA	Linear
DEFINITION	Human familial hypercholesterolemia 628-a gene with a deletion of			PRI 27-APR-1993
ACCESSION	M4179			
VERSION	M4179.1	GI:187101		
KEYWORDS	low density lipoprotein receptor-1; very low density lipoprotein.			
SOURCE	Human fibroblast DNA, from patient FH-626.			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
AUTHORS	1 (bases 1 to 97)			
TITLE	Hobbs, R.H., Brown, M.S., Goldstein, J.L. and Russell, D.W.			
JOURNAL	Deletion of exon encoding cysteine-rich repeat of low density			
MEDLINE	lipoprotein receptor alters its binding specificity in a subject			
PUBMED	with familial hypercholesterolemia			
COMMENT	J. Biol. Chem. 261 (28), 13114-13120 (1986)			
	3020025			
	Analysis of the LDL-receptor gene of a patient with familial			

FEATURES										from a homologous recombination between repetitive Alu sequences of intron 4 and intron 5.									
source										1. .97 Location/Qualifiers									
misc_feature										/organism="Homo sapiens" /db_xref="taxon:9606" 42. .72									
BASE COUNT										22 a 34 C 23 g 18 t									
ORIGIN										Chromosome 19p13.2-p13.1.									
Query Match										1.0%; Score 66; DB 9; Length 97;									
Best Local Similarity										83.3%; Pred. No. 0.00046;									
Matches										75; Conservative 0; Mismatches 15; Indels 0; Gaps 0;									
QY 5196										CCGAGCAGCTCTTGACTCTCGGCTCAAGTATCTCTCCGACGCTCCCAAGTG 5255									
Db 5										CAGAGCTGTGTTGAACCTCGGGCTCAAGCAATCTGCTTGCGCTCCCAAGTG 64									
QY 5256										CTGGGATTACAGTGTGACCCACACACC 5285									
Db 65										CTGGGATTACAGGCACAAACCCGCGCC 94									
RESULT 7										90 bp DNA Linear PRI 11-JAN-1995									
HUMDLR																			
LOCUS										Human low density lipoprotein receptor mutant gene recombination site.									
DEFINITION																			
ACCESSION										M15365									
VERSION										M15365.1 GI:187107									
KEYWORDS										Alu repeat; LDL receptor; cell surface protein; crossover; recombination.									
SOURCE										Human (FH 295) fibroblast DNA, clone p295.									
ORGANISM										Homo sapiens									
										Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.									
REFERENCE										1 (bases 1 to 90)									
AUTHORS										Lehman,M.A., Goldstein,J.L., Russell,D.W. and Brown,M.S.									
TITLE										Duplication of seven exons in LDL receptor gene caused by Alu-Alu recombination in a subject with familial hypercholesterolemia									
JOURNAL										Cell 48 (5), 827-835 (1987)									
MEDLINE										87131094									
PUBMED										3815525									
COMMENT										Clean copy of sequence kindly provided by M. Lehman (22-APR-1987). Individual FH 295 carries two mutant LDL receptor alleles. The allele below was inherited from the father and includes a duplication of exons 2 through 8 that was presumably created by unequal chromosomal crossover involving Alu repeats in introns 1 and 8. The exact site of recombination cannot be determined because the sequences of the Alu repeats in introns 1 and 8 of normal alleles are identical over a span of 26 nucleotides at the recombination site.									
FEATURES																			
source										1. .90 Location/Qualifiers									
										/organism="Homo sapiens" /db_xref="taxon:9606" /map="19p13.3"									
gene										1. .43									
										/gene="LDLR"									
intron										<1. .43									
										/gene="LDLR"									
										/note="LDLR intron 8; G00-119-362"									
misc_recomb										43. .68									
										/organism="Homo sapiens"									
intron										68. .>90									
										/note="LDLR duplicated intron 1 (no splice consensus at 68); putative; does not fit consensus"									
BASE COUNT										18 a 33 C 20 t									
ORIGIN										1 bp upstream of NheI site; chromosome 19p13.2-p13.1.									
Query Match										1.0%; Score 65.6; DB 9; Length 90;									





RESULT 11  
AX197476/c 94 bp DNA linear PAT 29-AUG-2001  
LOCUS AX197476  
DEFINITION Sequence 41 from Patent WO0151632.  
ACCESSION AX197476  
VERSION AX197476.1 GI:15387843  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 94)  
AUTHORS Padigaru,M., Prayaga,S.K., Taupier,R.J., Mishra,V., Tcherenev,V.T.,  
Spytek,K.A. and Li,L.  
TITLE Olfactory receptor polypeptides and nucleic acids encoding same  
JOURNAL Patent: WO 0151632-A 41 19-JUL-2001;  
Curagen Corporation (US)  
FEATURES  
Location/Qualifiers  
source 1..94  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 18 a 26 c 34 g 16 t  
ORIGIN

Query Match 0.9%; Score 62.8; DB 6; Length 94;  
Best Local Similarity 85.4%; Pred. No. 0.0024;  
Matches 82; Conservative 0; Mismatches 12; Indels 2; Gaps 1;

QY 4111 GTGGCGCGGCTGCTCCGACCTTGACCTCGGGTATCCACCCACTAGCTCCCAA 4170  
Db 94 GTTAGCCAGATGCTCTGATCTCTGACCTC--ATGATCCACCGCGCTCGCTCCAA 37  
|||||  
QY 4171 AGTCTGGATTACAGCGTAGCCACTGCACCGG 4206  
Db 36 AGTCTGGATTACAGCGTAGCCACTGCACCGG 1  
|||||

RESULT 12  
AX197483 94 bp DNA linear PAT 29-AUG-2001  
LOCUS AX197483  
DEFINITION Sequence 48 from Patent WO0151632.  
ACCESSION AX197483  
VERSION AX197483.1 GI:15387846  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 94)  
AUTHORS Padigaru,M., Prayaga,S.K., Taupier,R.J., Mishra,V., Tcherenev,V.T.,  
Spytek,K.A. and Li,L.  
TITLE Olfactory receptor polypeptides and nucleic acids encoding same  
JOURNAL Patent: WO 0151632-A 48 19-JUL-2001;  
Curagen Corporation (US)  
FEATURES  
Location/Qualifiers  
source 1..94  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 16 a 34 c 26 g 18 t  
ORIGIN

Query Match 0.9%; Score 62.8; DB 6; Length 94;  
Best Local Similarity 85.4%; Pred. No. 0.0024;  
Matches 82; Conservative 0; Mismatches 12; Indels 2; Gaps 1;

QY 4111 GTGGCGCGGCTGCTCCGACCTTGACCTCGGGTATCCACCCACTAGCTCCCAA 4170  
Db 1 GTTAGCCAGATGCTCTGATCTCTGACCTC--ATGATCCACCGCGCTCGCTCCAA 58  
|||||

QY 4171 AGTCTGGATTACAGCGTAGCCACTGCACCGG 4206  
Db 59 AGTCTGGATTACAGCGTAGCCACTGCACCGG 94  
|||||

RESULT 13  
HUMHGA/c 94 bp DNA linear PRI 08-NOV-1994  
LOCUS HUMHGA/c  
DEFINITION Human alpha-1-globin gene, 3' flank with an intragenic promoter  
split by an Alu repeat.  
ACCESSION M13479  
VERSION M13479.1 GI:184024  
KEYWORDS Alu repeat; alpha-1 globin; hemoglobin.  
SOURCE Human DNA.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 94)  
AUTHORS Perez-Stable,C. and Shen,C.K.  
TITLE Competitive and cooperative functioning of the anterior and  
posterior promoter elements of an Alu family repeat  
JOURNAL Mol. Cell. Biol. 6 (6), 2041-2052 (1986)  
MEDLINE 87064495  
PUBMED 3023916  
FEATURES  
Location/Qualifiers  
source 1..94  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/map="16p13.3"  
gene 8..94  
/gene="HBA1"  
repeat\_region 8..>94  
/note="Alu repeat; G00-119-293"  
BASE COUNT 22 a 23 c 30 g 19 t  
ORIGIN

Query Match 0.9%; Score 62.6; DB 9; Length 94;  
Best Local Similarity 81.8%; Pred. No. 0.0027;  
Matches 72; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 4122 TGCTCTGACCTTGTGACCTCGGGTATCCACCCACTAGCTCCCAAGTCTGGAT 4181  
Db 94 TGCTCTGACCTTGTGACCTCGGGTATCCACCCACTAGCTCCCAAGTCTGGAT 35  
|||||

QY 4182 TACAAGCGTGAGCCACTGCACCGGCCA 4209  
Db 34 TACAAGCGTGAGCCACTGCACCGGCCA 7  
|||||

RESULT 14  
HUMBRFAE 80 bp DNA linear PRI 27-APR-1993  
LOCUS HUMBRFAE  
DEFINITION Human alpha-galactosidase breakpoint region.  
ACCESSION M36135  
VERSION M36135.1 GI:179545  
KEYWORDS Fabry disease; breakpoint junction; glycosphingolipid catabolism.  
SOURCE Human DNA.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 80)  
AUTHORS Kornreich,R., Bishop,D.F. and Desnick,R.J.  
TITLE Alpha-galactosidase A gene rearrangements causing Fabry disease.  
JOURNAL Identification of short direct repeats at breakpoints in an  
Alu-rich gene  
J. Biol. Chem. 265 (16), 9319-9326 (1990)  
MEDLINE 90264427  
PUBMED 2160973  
FEATURES  
Location/Qualifiers  
source 1..80  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
BASE COUNT 10 a 29 c 22 g 19 t  
ORIGIN

Query Match 0.9%; Score 62.4; DB 9; Length 80;  
Best Local Similarity 86.2%; Pred. No. 0.003;

Matches 69; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3954 GCGTGGGTGACGTGCGGATCGGCTTCACCTCCGCTCTTGGGTTCAAGC 4013

Db 1 GCGTGGAGGCGATCGGCTCAGCTCAGCTCACCCTCGGGTTCAAGC 60

QY 4014 ATTCTTGTGCTTACAGCTCC 4033

Db 61 ATTCTTGTGCTTACAGCTCC 80

# RESULT 15

S73203 79 bp DNA linear PRI 28-FEB-1995

LOCUS ALL-1 (tandem duplication) [human, acute myeloid leukemia patient,

Genomic Mutant, 79 nt].

ACCESSION S73203

VERSION S73203.1 GI:685048

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

REMARK

FEATURES

source

gene

BASE COUNT

ORIGIN

QY 3971 GCGATCTGGTTCACCTCGGCTTGGTTCAGGATCTTGTGCTCAGCC 4030

Db 78 GCGATCTGAGTTCACCTCGGCTTGGTTCAGGATCTTGTGCTCAGCC 19

QY 4031 TCCGAGTAGCTGGGA 4046

Db 18 TCCGAGTAGCTGGGA 3

Query Match 0.9%; Score 61.6; DB 9; Length 79;

Best Local Similarity 88.2%; Pred. No. 0.0045;

Matches 67; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Map location: 11.

Location/Qualifiers

1..79

/organism="Homo sapiens"

/db\_xref="taxon:9606"

Search completed: January 4, 2003, 16:23:59

Job time : 11013 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

```
Run on:      January 4, 2003, 13:00:00 ; Search time 827 Seconds
              (without alignments)
              18168.480 Million cell updates/sec
```

Title:	US-10-006-366-3
Perfect score:	6672
Sequence:	1 cctcccaactgtgtactgt.....ttacttgtgttcacctgt 6672

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 2387546

Minimum	DB	seq	length:	0
Maximum	DB	seq	length:	99

```

post-processing:  Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries

```

Database : *N\_Geneseq\_101002.\**

1: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT.\*  
2: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.\*  
3: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT.\*  
4: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT.\*  
5: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT.\*  
6: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT.\*  
7: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT.\*  
8: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT.\*  
9: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT.\*  
10: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT.\*  
11: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT.\*  
12: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT.\*  
13: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT.\*  
14: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT.\*  
15: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT.\*  
16: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT.\*  
17: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT.\*  
18: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.\*  
19: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.\*  
20: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.\*  
21: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.\*  
22: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.\*  
23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.\*  
24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.\*

## SUMMARIES

Result No	Score	Query Match	Length	DB	ID	Description
1	80.4	1.2	98	22	AA528384	Genomic sequence #
2	80.4	1.2	98	22	AA528385	Genomic sequence #
3	80.4	1.2	99	22	AAK86580	Human immune/haema
4	79.6	1.2	99	22	AAK86572	Human immune/haema
c	78.8	1.2	98	22	AA532628	Human genomic DNA
5	78.8	1.2	98	22	AAK89189	Human digestive sy
6	78.8	1.2	98	22	AAK89190	Human digestive sy
c	77.4	1.2	95	22	AAK85116	Human immune/haema
7	77.4	1.2	95	22	AAK85116	Human immune/haema
c	77.2	1.2	98	22	ABA18411	Human nervous syst

C	10	77.2	1.2	98	22	ABA18415	Human nervous syst
C	11	77.2	1.2	98	22	ABA07342	Human pancreatic c
C	12	77.2	1.2	98	22	AA332769	Human genomic DNA
C	13	77.2	1.2	98	22	AAAL04206	Human reproductive
C	14	77.2	1.2	98	22	AAAL05463	Human reproductive
C	15	77.2	1.2	98	22	AAK71849	Human immune/haema
C	16	77.2	1.2	98	22	AAK71849	Human immune/haema
C	17	77.2	1.2	98	22	AAK71850	Human immune/haema
C	18	77.2	1.2	98	22	AAK76017	Human immune/haema
C	19	77.2	1.2	98	23	ABL969316	Human testicular a
C	20	77.2	1.2	99	22	ABAI1383	Human nervous syst
C	21	77.2	1.2	99	22	ABAI1384	Human nervous syst
C	22	76.8	1.2	97	22	AAK73597	Human immune/haema
C	23	76.6	1.1	99	22	AAK73586	Human immune/haema
C	24	76	1.1	92	22	AAK73570	Human immune/haema
C	25	75.8	1.1	93	22	AA527784	Human immune/haema
C	26	75.6	1.1	98	22	ABA21367	Human nervous syst
C	27	75.6	1.1	98	22	AA333552	Human genomic DNA
C	28	75.6	1.1	98	22	AA68101	Human immune/haema
C	29	75.6	1.1	98	22	AAK73298	Human immune/haema
C	30	75.6	1.1	98	22	AAK85385	Human immune/haema
C	31	75.6	1.1	98	22	AAK85853	Human immune/haema
C	32	75.6	1.1	98	22	AAK86587	Human immune/haema
C	33	75.6	1.1	98	23	ABK42979	Genomic sequence #
C	34	75.6	1.1	98	23	ABK42980	Genomic sequence #
C	35	75.6	1.1	99	22	AAK83535	Human immune/haema
C	36	75.6	1.1	99	22	AAK86591	Human immune/haema
C	37	75.4	1.1	93	22	AAAL07462	Human reproductive
C	38	75.4	1.1	96	21	AAIC12454	Human secreted ptei
C	39	74.8	1.1	88	22	AAK86564	Human immune/haema
C	40	74.6	1.1	88	22	AAK85113	Human immune/haema
C	41	74.4	1.1	94	22	AAK73563	Human immune/haema
C	42	74	1.1	98	22	ABAI17211	Human nervous syst
C	43	74	1.1	98	22	ABAI17212	Human nervous syst
C	44	74	1.1	98	22	AA532925	Human genomic DNA
C	45	74	1.1	98	22	AAK67645	Human immune/haema

RESULT 1	
ID	AAS28384
	AAS28384 standard; DNA; 98 BP
XX	
AC	AAS28384;
XX	
DT	07-NOV-2001 (first entry)
XX	
DE	Genomic sequence #224 encoding
XX	
KW	Human; respiratory antigen; r
KW	lung disorder; nose disorder;
KW	anti allergic; anti asthmatic
KW	respiratory active; ds.
XX	
OS	Homo sapiens.
XX	
PN	WO200155448-A1.
XX	
PD	02-AUG-2001.
XX	
FE	17-JAN-2001; 2001WO-US01333.
XX	
PR	31-JAN-2000; 2000US-0179065.
PR	04-FEB-2000; 2000US-0180628.
PR	24-FEB-2000; 2000US-0184664.
PR	16-MAR-2000; 2000US-0186350.
PR	15-MAR-2000; 2000US-0189874.
PR	17-MAR-2000; 2000US-0190076.
PR	18-APR-2000; 2000US-0198123.
PR	09-MAY-2000; 2000US-0205515.
PR	17-JUN-2000; 2000US-0209467.

PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 26-JUL-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
 PR 14-AUG-2000; 2000US-0225267.  
 PR 14-AUG-2000; 2000US-0225268.  
 PR 14-AUG-2000; 2000US-0225270.  
 PR 14-AUG-2000; 2000US-0225447.  
 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-0226279.  
 PR 22-AUG-2000; 2000US-0226681.  
 PR 22-AUG-2000; 2000US-0226868.  
 PR 22-AUG-2000; 2000US-0227182.  
 PR 30-AUG-2000; 2000US-0227009.  
 PR 01-SEP-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 05-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0232397.  
 PR 14-SEP-2000; 2000US-0232398.  
 PR 14-SEP-2000; 2000US-0232399.  
 PR 14-SEP-2000; 2000US-0232400.  
 PR 14-SEP-2000; 2000US-0232401.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.  
 PR 14-SEP-2000; 2000US-0233065.  
 PR 21-SEP-2000; 2000US-0234223.  
 PR 21-SEP-2000; 2000US-0234274.  
 PR 25-SEP-2000; 2000US-0234997.  
 PR 25-SEP-2000; 2000US-0234998.  
 PR 26-SEP-2000; 2000US-0235484.  
 PR 27-SEP-2000; 2000US-0235834.  
 PR 27-SEP-2000; 2000US-0235836.  
 PR 29-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236367.  
 PR 29-SEP-2000; 2000US-0236368.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 29-SEP-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0236802.  
 PR 02-OCT-2000; 2000US-0237037.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240960.  
 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.

PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241826.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
 PR 08-NOV-2000; 2000US-0246476.  
 PR 08-NOV-2000; 2000US-0246477.  
 PR 08-NOV-2000; 2000US-0246478.  
 PR 08-NOV-2000; 2000US-0246523.  
 PR 08-NOV-2000; 2000US-0246524.  
 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251866.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 (HUMA-) HUMAN GENOME SCI INC.  
 Rosen CA, Barash SC, Ruben SM;  
 WPL: 2001-476224/51.  
 Isolated polypeptide for treating, preventing and/or prognosing  
 disorders related to the respiratory system including respiratory  
 cancers and also for testing and detection e.g. diagnosis -  
 Dislosure: SED ID No 818; 546pp; English.  
 The present invention relates to the isolation of novel human  
 respiratory antigens (AAU17685-AAU17975), and cdna and genomic  
 sequences encoding for these polypeptides. The sequences of the  
 invention are useful for preventing, treating and/or prognosing  
 disorders related to the respiratory system including throat  
 disorders (e.g. vocal cord paralysis, tonsillitis, and laryngitis),

CC lung disorders e.g. pneumonia, allergic disorders e.g. asthma,  
CC pleurisy, cystic fibrosis, emphysema, nose disorders and cancers of  
CC the respiratory tissues e.g. lung cancer. The polynucleotide sequences  
CC of the invention are useful in gene therapy and antisense therapy.  
CC AA528161-AA528764 represent genomic sequences encoding for novel  
CC human respiratory antigens.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 98 BP; 20 A; 29 C; 27 G; 22 T; 0 other;  
Query Match  
Best Local Similarity 88.8%; Pred. No. 1.5e-06;  
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;  
QY 4090 GTAGACAGAGGTTTGCCTGTTGGCGGGGCTGCTGCACTCTTGACCTGGGTGAT 4149  
DB 1 GTAGACAGAGGTTTGCCTGTTGGCGGGGCTGCTGCACTCTTGACCTGGGTGAT 60  
QY 4150 CCACCCACCTCAGCCTCCCAAGTGTGGATTACAG 4187  
DB 61 CCACCTGCTCAGCCTCCCAAGTGTGGATTACAG 98  
RESULT 2  
AA528385  
ID AA528385 standard; DNA; 98 BP.  
AC AA528385;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Genomic sequence #225 encoding for novel human respiratory antigen.  
XX  
KW Human; respiratory antigen; respiratory disorder; throat disorder;  
KW lung disorder; nose disorder; lung cancer; gene therapy; cytostatic;  
KW anti allergic; anti asthmatic; anti inflammatory; olfactory;  
KW respiratory active; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO20015448-A1.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US01333.  
XX  
XX 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 14-JUL-2000; 2000US-0217496.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.

PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
PR 14-AUG-2000; 2000US-0225758.  
PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
PR 22-AUG-2000; 2000US-0226686.  
PR 23-AUG-2000; 2000US-0227182.  
PR 30-AUG-2000; 2000US-0227009.  
PR 01-SEP-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 05-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 06-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 08-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 21-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 25-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 26-SEP-2000; 2000US-0234998.  
PR 27-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 29-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236370.  
PR 29-SEP-2000; 2000US-0236379.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 13-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239337.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241221.  
PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
PR 20-OCT-2000; 2000US-0241787.  
PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 01-NOV-2000; 2000US-0241826.  
PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
PR 08-NOV-2000; 2000US-0246477.  
PR 08-NOV-2000; 2000US-0246478.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
PR 08-NOV-2000; 2000US-0246527.



PR	17-NOV-2000	2000US-0249224.
PR	17-NOV-2000	2000US-0249245.
PR	17-NOV-2000	2000US-0249264.
PR	17-NOV-2000	2000US-0249285.
PR	17-NOV-2000	2000US-0249287.
PR	17-NOV-2000	2000US-0249299.
PR	01-DEC-2000	2000US-0249300.
PR	01-DEC-2000	2000US-0250160.
PR	03-DEC-2000	2000US-0250391.
PR	05-DEC-2000	2000US-0251030.
PR	05-DEC-2000	2000US-0251988.
PR	05-DEC-2000	2000US-0256719.
PR	06-DEC-2000	2000US-0251479.
PR	08-DEC-2000	2000US-0251856.
PR	08-DEC-2000	2000US-0251868.
PR	08-DEC-2000	2000US-0251869.
PR	08-DEC-2000	2000US-0251989.
PR	08-DEC-2000	2000US-0251990.
PR	11-DEC-2000	2000US-0251097.
PR	05-JAN-2001	2001US-0253678.
XX		

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides useful for preventing, diagnosing and/or treating cancers and metastasis -

disclosure; SEQ ID NO 41392; 3071pp + Sequence Listing; English.

CC amino acid sequences given in the Human Immune/Haematopoietic antigen (I)  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC treatments and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I) by inserting  
CC the nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AK64703  
CC to AA687694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AK53942 to AK54950 and AA82169  
CC represent sequences used in the exemplification of the present invention.  
XX  
XX Sequence 99 BP; 18 A; 30 C; 29 G; 22 T; 0 other;

Query Match	1.2%;	Score 80.4;	DB 22;	Length 99;
Best Local Similarity	88.8%;	Pred. No. 1.5e-06;		
Matches 87;	Conservative	0;	Mismatches 11;	Indels 0.

QY	4099	GGATTTTGGCCGGTTGGCCGGGGTGTGTCTTCGACACTCTTTGACCTGGGTGATCCACCACC	4158
	2	GGATTTCGCATGTTGGCCAGCGCTGGTGTCTCGAAGCTCTCGACCTTGGTGTATGAGCTGTGC	61
QY	4159	TCAGGCTCCCAAAATGCTGGGATTTACAGCGTGAACCA	4196
	62 <td>TCAGGCTCCCAAAAGTGTGGATTTCAGGCGTGAGCCA</td> <td>99</td>	TCAGGCTCCCAAAAGTGTGGATTTCAGGCGTGAGCCA	99

RESULT 4	
AAK86572	
ID	AAK86572 standard; DNA; 99 BP
XX	
AC	AAK86572;
XX	
DT	07-NOV-2001 (first entry)

```

XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41384.
XX KM Human: immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX KM cytostatic; gene therapy; vaccine; metastasis; ds.
XX OS Homo sapiens.
XX PN W0200157182-A2.
XX PD 09-AUG-2001.
XX PF 17-JAN-2001; 2001WO-US01354.
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230457.
PR 06-SEP-2000; 2000US-0230458.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0231415.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0233081.
PR 14-SEP-2000; 2000US-0233397.
PR 14-SEP-2000; 2000US-0233398.
PR 14-SEP-2000; 2000US-0233399.
PR 14-SEP-2000; 2000US-0233400.
PR 14-SEP-2000; 2000US-0233401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.

PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 25-SEP-2000; 2000US-0234999.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 29-SEP-2000; 2000US-0236371.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 13-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 08-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 01-DEC-2000; 2000US-0250391.
PR 01-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0251988.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.

```



PR 08-DEC-2000; 2000US-0251989.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254097.  
PR 05-JAN-2001; 2001US-0259678.  
XX  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI: 2001-483426/52.  
DR  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and  
PT metastasis -  
XX  
XX  
PS Disclosure: SEQ ID NO 41384; 3071pp + Sequence Listing: English.  
XX  
XX  
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting  
CC the nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent  
CC diagnosis and treat immune/hematopoietic-related diseases, especially  
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/hematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169  
CC represent sequences used in the exemplification of the present invention.  
XX  
SQ Sequence 99 BP; 20 A; 33 C; 26 G; 20 T; 0 other;

Query Match 1 2%; Score 79.6; DB 22; Length 99;  
Best Local Similarity 90.4%; Pred. No. 2.1e-06;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 4110 TGTGGCCGGGCTGCTCTGCACTTTGACCTGCTGATCCACCCAGCAGCTCCCA 4169  
DB 6 TGTGGCCAGGCTGCTCTGCACTCTGACCGGAGGTGATCCACCCAGCTCCCA 65  
QY 4170 AAGTGTGGGATTTACAGCGTGAAGCCATGACCC 4203  
DB 66 AAGTGTGGGATTTACAGCGTGAAGCCATGACCC 99

RESULT 5  
AAS32628/c  
ID AAS32628 standard; DNA: 98 BP.  
XX  
XX AAS32628;  
AC  
XX  
XX 17-DEC-2001 (first entry)  
DT  
XX  
XX Human genomic DNA for novel endocrine antigen, SEQ ID NO 582.  
DE  
XX  
XX Human; endocrine antigen; ds; cytosolic; antinfertility; antidiabetic;  
KW thyroid-active; adrenal-active; androgenic; gastric; gene therapy;  
KW antisense-therapy; antibody; endocrine disorder; hormone imbalance;  
KW reproductive disorder; endocrine cancer; pancreatic disorder;  
KW diabetes mellitus; adrenal gland disorder; hirsutism; thyroid disorder;  
KW hyperthyroidism; hypothalamic disorder; vanishing testes syndrome.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200155319-A2.  
PN  
XX  
XX 02-AUG-2001.  
PD  
XX

PF 17-JAN-2001; 2001WO-US01335.  
XX  
XX  
PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216980.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218290.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
PR 14-AUG-2000; 2000US-0225758.  
PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
PR 22-AUG-2000; 2000US-0226688.  
PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227009.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.

29-SEP-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0236802.  
 PR 02-OCT-2000; 2000US-0237037.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240960.  
 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.  
 PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
 PR 08-NOV-2000; 2000US-0246476.  
 PR 08-NOV-2000; 2000US-0246477.  
 PR 08-NOV-2000; 2000US-0246478.  
 PR 08-NOV-2000; 2000US-0246523.  
 PR 08-NOV-2000; 2000US-0246524.  
 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 06-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 PR  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Barash SC, Ruben SM;  
 XX  
 DR WPI; 2001-457726/49.  
 XX  
 PT Isolated polypeptide for treating, preventing and prognosing disorders

PT related to the endocrine system including endocrine disorders,  
 PT reproductive disorders, and gastrointestinal disorders and also for  
 PT testing and detection e.g. diagnosis -  
 XX  
 XX Disclosure; SEQ ID No 582; 558bp; English.  
 XX  
 CC The invention relates to cDNAs encoding novel human endocrine  
 CC antigens or a fragment having biological activity, a domain, an epitope,  
 CC full length protein, variant, allelic variant or a species homologue of  
 CC the cDNA/antigen. The DNAs and polypeptides are useful for preventing,  
 CC treating or ameliorating a medical condition when administered  
 CC (e.g. by gene therapy or antisense-therapy). Identifying mutations in  
 CC the genes coding for the antigens is useful for diagnosing a pathological  
 CC condition or a susceptibility to a pathological condition. The DNAs,  
 CC antigens and antibodies raised against the antigens useful for treating,  
 CC preventing and/or prognosing disorders related to the endocrine system  
 CC or hormone imbalance or reproductive disorders, cancers of endocrine  
 CC tissues, disorders of the pancreas (e.g. diabetes mellitus), the adrenal  
 CC glands (e.g. hirsutism), ovaries, the thyroid (e.g. hyperthyroidism), the  
 CC hypothalamus and testes (e.g. vanishing testes syndrome), many examples  
 CC of diseases and disorders are given in the specification. The present  
 CC sequence is genomic DNA fragment form a gene encoding an endocrine  
 CC antigen of the invention.  
 CC Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic  
 CC format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 XX Sequence 98 BP; 22 A; 28 C; 29 G; 19 T; 0 other:  
 SQ  
 Query Match 1.2%; Score 78.8; DB 22; Length 98;  
 Best Local Similarity 87.8%; Pred. No. 3e-06;  
 Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;  
 QY 4090 GTAGAGACAGGGTTTCCCGGTGGCGGCTGCTCGAAGCTTACCTCGGGTAT 4149  
 Db 98 GTAGAGACAGGGTTTCCCGGTGGCGGCTGCTCGAAGCTTACCTCGAGTAT 39  
 QY 4150 CCACCACCTCAGCTCCCAAGTGTGGATTACAG 4187  
 Db 38 CCACCACCTTGGCTCCCAAGTGTGGATTACAG 1  
 RESULT 6  
 ID AAK89189 standard; DNA; 98 BP.  
 AC AAK89189;  
 DT 05-NOV-2001 (first entry)  
 DE Human digestive system antigen genomic sequence SEQ ID NO: 2765.  
 XX  
 XX Human; digestive system antigen; gene therapy; cancer; appendicitis;  
 XX ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;  
 XX digestive system disorder; Meckel's diverticulum; ds.  
 OS Homo sapiens.  
 XX  
 XX WO200155314-A2.  
 PN 02-AUG-2001.  
 PD 17-JAN-2001; 2001WO-US01324.  
 PF 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.

PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 26-JUL-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
 PR 14-AUG-2000; 2000US-0225267.  
 PR 14-AUG-2000; 2000US-0225268.  
 PR 14-AUG-2000; 2000US-0225270.  
 PR 14-AUG-2000; 2000US-0225447.  
 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-0226279.  
 PR 22-AUG-2000; 2000US-0226681.  
 PR 22-AUG-2000; 2000US-0226868.  
 PR 22-AUG-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
 PR 30-AUG-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 05-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0233397.  
 PR 14-SEP-2000; 2000US-0233398.  
 PR 14-SEP-2000; 2000US-0233399.  
 PR 14-SEP-2000; 2000US-0233399.  
 PR 14-SEP-2000; 2000US-0233400.  
 PR 14-SEP-2000; 2000US-0234001.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.  
 PR 21-SEP-2000; 2000US-0234223.  
 PR 21-SEP-2000; 2000US-0234274.  
 PR 25-SEP-2000; 2000US-0234997.  
 PR 25-SEP-2000; 2000US-0234998.  
 PR 26-SEP-2000; 2000US-0235834.  
 PR 27-SEP-2000; 2000US-0235834.  
 PR 27-SEP-2000; 2000US-0235835.  
 PR 29-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236367.  
 PR 29-SEP-2000; 2000US-0236368.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 29-SEP-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0236802.  
 PR 02-OCT-2000; 2000US-0237037.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240960.  
 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.  
 PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241826.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
 PR 08-NOV-2000; 2000US-0246475.  
 PR 08-NOV-2000; 2000US-0246476.  
 PR 08-NOV-2000; 2000US-0246477.  
 PR 08-NOV-2000; 2000US-0246478.  
 PR 08-NOV-2000; 2000US-0246523.  
 PR 08-NOV-2000; 2000US-0246524.  
 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251899.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 (HUMA-) HUMAN GENOME SCI INC.  
 Rosen CA, Barash SC, Ruben SM.  
 WPI; 2001-502630/55.  
 Polynucleotides encoding digestive system antigens, useful for  
 diagnosing, treating, preventing and/or prognosing disorders of the  
 digestive system, particularly cancer and cancer metastases -  
 Disclosure; SEQ ID NO 2765; 986bp; English.  
 The present invention provides the protein and coding sequences of a  
 number of human digestive system antigens. These can be used in the  
 diagnosis, treatment and prevention of digestive system disorders,  
 including cancer, Meckel's diverticulum, bacterial or parasitic  
 infections, appendicitis, Hirschsprung's disease, chronic colitis or

CC ulcerative colitis. The present sequence is a genomic DNA fragment  
CC encoding a digestive system antigen of the invention.  
XX  
SQ Sequence 98 BP; 18 A; 30 C; 28 G; 22 T; 0 other;

Query Match 1.28; Score 78.8; DB 22; Length 98;  
Best Local Similarity 87.88; Pred. No. 3e-06;  
Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

OY 4090 GTAGACACAGGTTTCCGTTGCGCGGCTGCTCGAAGCTTGTGACCTCGGTGAT 4149  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
DB 1 GTAGACACGGGGTTTCCATGTTGGCAGGCTGCTCGAAGCTTGTGACCTCGGTGAT 60

OY 4150 CCACCCACCTCAGCTCCCAAGTCTGCGATTACAG 4187  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
DB 61 CCACCCGCTTGGCTCCCAAGTCTGCGATTACAG 98

## RESULT 7

AAK89190  
ID AAK89190 standard; DNA; 98 BP.

XX  
AC AAK89190;

XX  
DT 05-NOV-2001 (first entry)

DE Human digestive system antigen genomic sequence SEQ ID NO: 2766.

XX Human digestive system antigen; gene therapy; cancer; appendicitis;

KM ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;

KW digestive system disorder; Meckel's diverticulum; ds.

XX Homo sapiens.

XX WO200155314-A2.

XX PD 02-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US01324.  
XX PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216847.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218290.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
PR 14-AUG-2000; 2000US-0225758.  
PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
PR 22-AUG-2000; 2000US-0226868.

PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227009.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 02-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239935.  
PR 13-OCT-2000; 2000US-0239937.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241121.  
PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
PR 20-OCT-2000; 2000US-0241787.  
PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 20-OCT-2000; 2000US-0241826.  
PR 01-NOV-2000; 2000US-0244617.  
PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
PR 08-NOV-2000; 2000US-0246477.  
PR 08-NOV-2000; 2000US-0246478.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
PR 08-NOV-2000; 2000US-0246527.  
PR 08-NOV-2000; 2000US-0246528.  
PR 08-NOV-2000; 2000US-0246532.  
PR 08-NOV-2000; 2000US-0246609.  
PR 08-NOV-2000; 2000US-0246610.  
PR 08-NOV-2000; 2000US-0246611.  
PR 08-NOV-2000; 2000US-0246613.  
PR 17-NOV-2000; 2000US-0249207.  
PR 17-NOV-2000; 2000US-0249208.

PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 17-NOV-2000; 2000US-0249299.  
 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 06-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 11-DEC-2000; 2000US-0251990.  
 PR 05-JAN-2001; 2001US-0259678.  
 (HUMA-) HUMAN GENOME SCI INC.  
 Rosen CA, Barash SC, Ruben SM;  
 WPI; 2001-502630/55.

XX PT Polynucleotides encoding digestive system antigens, useful for  
 PT diagnosing, treating, preventing and/or prognosing disorders of the  
 PT digestive system, particularly cancer and cancer metastases -  
 XX  
 PS Disclosure; SEQ ID NO 2766; 986pp; English.

XX CC The present invention provides the protein and coding sequences of a  
 CC number of human digestive system antigens. These can be used in the  
 CC diagnosis, treatment and prevention of digestive system disorders,  
 CC including cancer, Meckel's diverticulum, bacterial or parasitic  
 CC infections, appendicitis, Hirschsprung's disease, chronic colitis or  
 CC ulcerative colitis. The present sequence is a genomic DNA fragment  
 CC encoding a digestive system antigen of the invention.

XX SQ Sequence 98 BP; 18 A; 30 C; 28 G; 22 T; 0 other;  
 Query Match 1 2%; Score 78.8; DB 22; Length 98;  
 Best Local Similarity 87.8%; Pred. No. 3e-06;  
 Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

OY 4090 GTAGAGACAGGTTTGGCGGCGGCTGCTCGACTCTGACCTGGGATGAT 4149  
 Db 1 GTAGAGACAGGTTTGGCGGCGGCTGCTCGACTCTGACCTGGGATGAT 60  
 OY 4150 CCACCCACTCAGCCTCCCAAGTCTGGGATTACAG 4187  
 Db 61 CCACCCGCTTGGCTCCCAAGTCTGGGATTACAG 98

RESULT 8  
 AAK85116/c  
 ID AAK85116 standard; DNA; 95 BP.  
 AC AAK85116;  
 XX  
 DT 07-NOV-2001 (first entry)

XX XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:39928.  
 DE Human: immune; haematopoietic; immune/haematopoietic antigen; cancer;  
 XX Cystocytic; gene therapy; vaccine; metastasis; ds.  
 KW Homo sapiens.  
 XX MO200157182-A2.  
 XX 09-AUG-2001.  
 PD 17-JAN-2001; 2001WO-US01354.  
 XX 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 26-JUL-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
 PR 14-AUG-2000; 2000US-0225267.  
 PR 14-AUG-2000; 2000US-0225268.  
 PR 14-AUG-2000; 2000US-0225270.  
 PR 14-AUG-2000; 2000US-0225447.  
 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-0226279.  
 PR 22-AUG-2000; 2000US-0226681.  
 PR 22-AUG-2000; 2000US-0226688.  
 PR 22-AUG-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
 PR 30-AUG-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 05-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0232397.  
 PR 14-SEP-2000; 2000US-0232398.  
 PR 14-SEP-2000; 2000US-0232399.  
 PR 14-SEP-2000; 2000US-0232400.  
 PR 14-SEP-2000; 2000US-0232401.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.













Best Local Similarity 86.7%; Pred. No. 6.2e-06;  
Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
QY 4090 GTAGACACAGGTTTGGCGGGGCTGCTCCAGCTTGACCTGGGTGAT 4149  
Db 1 GTAGACAGGGGTTTACCATGTTGGCAGGCTGCTCAAACTCTGAGTGAT 60  
QY 4150 CCACCCACTCAGCTCCCAAGTGTGATTACAG 4187  
Db 61 CCGCCGCGCTCGGCTCCCAAGTGTGATTACAG 98  
RESULT 12  
AAS32769  
ID AAS32769 standard; DNA: 98 BP.  
XX  
AC AAS32769;  
XX  
DT 17-DEC-2001 (first entry)  
XX  
DE Human genomic DNA for novel endocrine antigen, SEQ ID No 723.  
XX  
KW Human; endocrine antigen; ds; cytotstatic; antifertility; antidiabetic;  
KW thyroid active; adrenal active; androgenic; gastric; gene therapy;  
KW antisense therapy; antibody; endocrine disorder; hormone imbalance;  
KW reproductive disorder; endocrine cancer; pancreatic disorder;  
KW diabetes mellitus; adrenal gland disorder; hirsutism; thyroid disorder;  
KW hyperthyroidism; hypothalamic disorder; vanishing testes syndrome.  
XX  
OS Homo sapiens.  
XX  
PN WO200155319-A2.  
PD  
XX 02-AUG-2001.  
PE 17-JAN-2001; 2001WO-US01335.  
XX  
PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0196123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 11-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 14-JUL-2000; 2000US-0217496.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220963.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
PR 14-AUG-2000; 2000US-0225758.  
PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226811.  
PR 22-AUG-2000; 2000US-0226868.  
PR 23-AUG-2000; 2000US-0227182.  
PR 30-AUG-2000; 2000US-0228924.

PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 12-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239935.  
PR 13-OCT-2000; 2000US-0239937.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241221.  
PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 20-OCT-2000; 2000US-0241826.  
PR 01-NOV-2000; 2000US-0244617.  
PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
PR 08-NOV-2000; 2000US-0246477.  
PR 08-NOV-2000; 2000US-0246478.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
PR 08-NOV-2000; 2000US-0246527.  
PR 08-NOV-2000; 2000US-0246528.  
PR 08-NOV-2000; 2000US-0246532.  
PR 08-NOV-2000; 2000US-0246609.  
PR 08-NOV-2000; 2000US-0246610.  
PR 08-NOV-2000; 2000US-0246611.  
PR 08-NOV-2000; 2000US-0246613.  
PR 17-NOV-2000; 2000US-0249207.  
PR 17-NOV-2000; 2000US-0249208.  
PR 17-NOV-2000; 2000US-0249209.  
PR 17-NOV-2000; 2000US-0249210.  
PR 17-NOV-2000; 2000US-0249211.







CC number of human reproductive system related antigens. These can be used  
CC in the prevention and treatment of reproductive system disorders,  
CC including cancer. The present sequence is a genomic sequence encoding a  
CC protein of the invention.  
XX  
SQ Sequence 98 BP; 22 A; 27 C; 25 G; 24 T; 0 other;  
Query Match 1.2%; Score 77.2; DB 22; Length 98;  
Best Local Similarity 86.7%; Pred. No. 6.2e-06;  
Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
QY 4088 TGGTAGACAGAGGTTTTCGCTGGCCGGCTGCTCGACTCTTGACCTCGGGTG 4147  
Db 1 TAGTAGAGATGAGGTTTCATGTTGGCCAGGCTGCTCGAAGTCTGAGCTCAGGTG 60  
QY 4148 ATCCACCCACTCAGGCTCCCAAGTGTGAGTTACA 4185  
Db 61 ATCCACACACACTGCGCTCCCAAGTGTGAGTTACA 98  
RESULT 15  
AAK71848/C  
ID AAK71848 standard; DNA; 98 BP.  
XX  
AC AAK71848;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:26660.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX cytosolic; gene therapy; vaccine; metastasis; ds.  
OS Homo sapiens.  
XX  
PM WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US01354.  
XX  
PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 11-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 14-JUL-2000; 2000US-0217496.  
PR 26-JUL-2000; 2000US-0218299.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.  
PR 14-AUG-2000; 2000US-0225758.  
PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.

PR 22-AUG-2000; 2000US-0226688.  
PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227182.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
PR 01-SEP-2000; 2000US-0229344.  
PR 01-SEP-2000; 2000US-0229345.  
PR 05-SEP-2000; 2000US-0229509.  
PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
PR 08-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0232981.  
PR 14-SEP-2000; 2000US-0232987.  
PR 14-SEP-2000; 2000US-0232988.  
PR 14-SEP-2000; 2000US-0232989.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 21-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235634.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 02-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239335.  
PR 13-OCT-2000; 2000US-0239337.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241221.  
PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
PR 20-OCT-2000; 2000US-0241787.  
PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 20-OCT-2000; 2000US-0241826.  
PR 01-NOV-2000; 2000US-0244617.  
PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
PR 08-NOV-2000; 2000US-0246477.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
PR 08-NOV-2000; 2000US-0246527.  
PR 08-NOV-2000; 2000US-0246528.  
PR 08-NOV-2000; 2000US-0246532.  
PR 08-NOV-2000; 2000US-0246609.  
PR 08-NOV-2000; 2000US-0246610.  
PR 08-NOV-2000; 2000US-0246611.  
PR 08-NOV-2000; 2000US-0246613.  
PR 17-NOV-2000; 2000US-0249207.

PR 17-NOV-2000; 2000US-0249208.  
PR 17-NOV-2000; 2000US-0249209.  
PR 17-NOV-2000; 2000US-0249210.  
PR 17-NOV-2000; 2000US-0249211.  
PR 17-NOV-2000; 2000US-0249212.  
PR 17-NOV-2000; 2000US-0249213.  
PR 17-NOV-2000; 2000US-0249214.  
PR 17-NOV-2000; 2000US-0249215.  
PR 17-NOV-2000; 2000US-0249216.  
PR 17-NOV-2000; 2000US-0249217.  
PR 17-NOV-2000; 2000US-0249218.  
PR 17-NOV-2000; 2000US-0249244.  
PR 17-NOV-2000; 2000US-0249245.  
PR 17-NOV-2000; 2000US-0249264.  
PR 17-NOV-2000; 2000US-0249265.  
PR 17-NOV-2000; 2000US-0249297.  
PR 17-NOV-2000; 2000US-0249299.  
PR 17-NOV-2000; 2000US-0249300.  
PR 01-DEC-2000; 2000US-0250160.  
PR 01-DEC-2000; 2000US-0250391.  
PR 05-DEC-2000; 2000US-0251030.  
PR 05-DEC-2000; 2000US-0251988.  
PR 05-DEC-2000; 2000US-0256719.  
PR 06-DEC-2000; 2000US-0251479.  
PR 06-DEC-2000; 2000US-0251856.  
PR 08-DEC-2000; 2000US-0251868.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251899.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254097.  
PR 05-JAN-2001; 2001US-0259678.

## (HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM:

WPI; 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
useful for preventing, diagnosing and/or treating cancers and  
metastasis -

PS Disclosure; SEQ ID NO 26660; 3071pp + Sequence Listing; English.

CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting  
CC the nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/hematopoietic-related diseases, especially  
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/hematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169  
CC represent sequences used in the exemplification of the present invention.

SQ Sequence 98 BP; 24 A; 29 C; 26 G; 19 T; 0 other;

Query Match 1.28; Score 77.2; DB 22; Length 98;

Best Local Similarity 86.7%; Pred. No. 6.2e-06;  
Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4090 GTAAGAGAGAGGTTTGGCTGTGGCCGGGCTGCTCGAAGCTTGACCTGGGGTAT 4149

DB 98 GTAGAGAGGGGTTATGATGTGGCCAGGCTGTGTAAGCTTGACCTGACCTCAGGTGT 39

QY 4150 CCACCCACTCAGCTCCCAAGTGTGGATTACAG 4187

DB 38 CCACCCACTTGGGCTTCGCCAAGTGTGGGATTACAG 1

Search completed: January 4, 2003, 13:20:12  
Job time : 834 secs